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.

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**Complete Directions for Use**

**EPA Reg. No. 524-445**

**Avoid Contact of Herbicide with Foliage, Green Stems, Exposed Non-Woody Roots or Fruit of Crops (Except as Specified for Individual Roundup Ready® Crops), Desirable Plants and Trees, Because Severe Injury or Destruction May Result.**

**2007-1**

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

Read the entire label before using this product.

Use only according to label instructions.

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

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

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**1.0 INGREDIENTS**

**ACTIVE INGREDIENT:**

*Glyphosate, N-(phosphonomethyl)glycine in the form of its isopropylamine salt* ........................................... 41.0%

*OTHER INGREDIENTS: ........................................... 59.0%

*Contains 480 grams per liter or 4 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its isopropylamine salt. Equivalent to 356 grams per liter or 3 pounds per U.S. gallon of the acid, glyphosate.

No license granted under any non-U.S. patent(s).

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**2.0 IMPORTANT PHONE NUMBERS**

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

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

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**3.0 PRECAUTIONARY STATEMENTS**

**3.1 Hazards to Humans and Domestic Animals**

**WARNING! AVISO!**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY**

**HARMFUL IF SWALLOWED OR INHALED**

Do not get in eyes or on clothing.

Avoid breathing vapor or spray mist.

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

| IF IN EYES | If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. |
| IF INHALED | Remove contact lenses if present after the first 5 minutes then continue rinsing eye. |
| IF SWALLOWED | Have person sip a glass of water if able to swallow. |

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**4.0 USES**

**This product is identified as Honcho® Herbicide, EPA Registration No. 524-445.**

You may also contact (314) 694-4000, collect day or night, for emergency medical treatment information.

**DOMESTIC ANIMALS:** This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

**Personal Protective Equipment (PPE)**

Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks, and protective eyewear. Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product’s concentrate. Do not reuse them.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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**User Safety Recommendations**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside.
- Then wash thoroughly and put on clean clothing.
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 washwaters.

3.3 Physical or Chemical Hazards
Spray solutions of this product should be mixed, stored and applied using only stainless steel, aluminum, 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 may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder’s torch, lighted cigarette or other ignition source.

DIRECTIONS FOR USE
It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This product can only be used in accordance with the Directions for Use on this label or in separately published Monsanto Supplemental Labeling. Supplemental labeling may be found on the cdms.net or greenbook.net websites or obtained by contacting 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 regulations.

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical resistant gloves greater than 14 mils, respiratory protective devices, chemical resistant boots greater than 4 mils in thickness composed of materials such as butyl rubber, neoprene rubber, or nitrile rubber, shoes plus socks and protective eyewear.

Non-Agricultural Use Requirements
The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. Keep people and pets off treated areas until spray solution has dried.

4.0 STORAGE AND DISPOSAL
Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

PESTICIDE STORAGE: Keep container closed to prevent spills and contamination.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state, or local procedures.

CONTAINER DISPOSAL: Empty container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed. See container label for additional CONTAINER DISPOSAL instructions.

5.0 GENERAL INFORMATION
(How this product works)
Product Description: This product is a postemergence, systemic herbicide with no soil residual activity. It is generally non-selective and gives broad-spectrum control of many annual weeds, perennial weeds, woody brush and trees. It is formulated as a water-soluble liquid. It may be applied through most standard industrial or field sprayers after dilution and thorough mixing with water or other carriers according to label instructions.

Time to Symptoms: This product moves through the plant from the point of foliage contact to and into the root system. Visible effects are gradual wilting and yellowing of the plant, which advances to complete browning of above ground 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 may not be visible for 7 days or more. Extremely cool or cloudy weather following treatment may slow activity of this product and delay development of visual symptoms.

Stage of Weeds: Annual weeds are easiest to control when they are small. Best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity. Refer to the “ANNUAL WEEDS”, “PERENNIAL WEEDS” and “WOODY BRUSH AND TREES RATE SECTIONS” for specific weed recommendations.

Always use the highest product application rate within the recommended range when weed growth is heavy or dense or when weeds are growing in an undisturbed (non-cultivated) area. Reduced weed control may result from treating weeds with disease or insect damage, weeds heavily covered with dust, or weeds under poor growing conditions.

Cultural Considerations: Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed, or cut, and have not been allowed to regrow to the recommended stage for treatment.

Rainfastness: Heavy rainfall soon after application may wash this product off of the foliage and a repeat application may be required for adequate control.

Spray Coverage: For best results, spray coverage should be uniform and complete. Do not spray foliage to the point of run-off.

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

No Soil Activity: Weeds must be emerged at the time of application to be controlled by this product. Weeds germinating from seed after application will not be controlled. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by this herbicide and will continue to grow.

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

Annual Maximum Application Rates: The maximum application or use rates stated throughout this product’s labeling are given in units of volume (fluid ounces, pints, or quarts) of this product per acre. However, the maximum allowed application rates apply to this product combined with the use of any and all other herbicides containing the active ingredient glyphosate, whether applied separately or as tank mixtures, 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 does not exceed the maximum allowed. See the “INGREDIENTS” section of this label for necessary product information.

As with any product, use only the amount needed to control the target weed or pest. Excess product can be harmful to your health, the environment, and the economy. It is illegal to exceed the maximum application rate.

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

6.0 WEED RESISTANCE MANAGEMENT

Glyphosate is a Group 9 herbicide based on the mode of action classification system of the Weed Science Society of America. Any weed population may contain plants naturally resistant to Group 9 herbicides. Weed species resistant to Group 9 herbicides may be effectively managed utilizing another herbicide from a different Group or by using other cultural or mechanical practices.

6.1 General Weed Management Recommendations
To minimize the occurrence of glyphosate-resistant biotypes observe the following general weed management recommendations:

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

6.2 Management Recommendations For Glyphosate-Resistant Biotypes

NOTE: Appropriate testing is critical in order to determine if a weed is resistant to glyphosate. Call 1-800-ROUNDUP (1-800-768-6387) or contact your Monsanto representative to determine if resistance has been confirmed to any particular weed biotype in your area, or you can visit www.weedresistantcmanagement.com or www.weedscience.org. For more information see the "ANNUAL WEEDS and "PERENNIAL WEEDS RATE RATINGS" of this label.

Control recommendations for biotypes confirmed as resistant to glyphosate are made available on separately published supplemental labeling or Fact Sheets for this product and can be obtained from your local retailer or Monsanto representative.

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

The following good agronomic practices are recommended to reduce the spread of confirmed glyphosate-resistant biotypes:

• If a naturally occurring resistant biotype is present in your field, this product should be tank-mixed or applied sequentially with an appropriately labeled herbicide with a different mode of action to achieve control.

• Cultural and mechanical control practices (e.g. crop rotation or tillage) may also be used as appropriate.

• One method for adding other herbicides into a continuous Roundup Ready system is to rotate to other Roundup Ready crops.

• Scout treated fields after herbicide applications and control escaping weeds including resistant biotypes before they set seed.

• Thoroughly clean equipment before leaving fields known to contain resistant biotypes.

7.0 MIXING

Spray solutions of this product should be mixed, stored and applied using only clean stainless steel, aluminum, 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.

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

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

7.1 Mixing with Water

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 recommended amount of this product near the end of the filling process and mix gently. Use caution to avoid siphoning back into the carrier source. During mixing, foaming of the spray solution may occur. To prevent or minimize foaming, mix gently, terminate by-pass and return lines at the bottom of the tank and, if necessary, use an anti-foam or defoaming agent.

7.2 Tank Mixtures

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

Buyer and all users are responsible for 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 recommended in this labeling, or in separate supplemental labeling or Fact Sheets published by Monsanto for this product.

Tank mixtures with other herbicides, insecticides, fungicides, micronutrients or fertilizer may result in reduced weed control or crop injury and are NOT recommended for applications of this product unless otherwise noted in this product label, or in separate supplemental labeling or Fact Sheets published by Monsanto.

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

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

Always predetermine the compatibility of all tank-mix products together in the carrier by mixing small proportional quantities in advance. For best results, it is recommended that tank mixtures with this product be applied at a minimum spray volume rate of 10 gallons per acre.

7.3 Tank Mixing Procedure

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. Through the screen, fill the tank one-half full with water and start gentle agitation.

2. 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.

3. If a wettable powder is used, make a slurry with the water, and add it SLOWLY through the screen into the tank while continuing gentle agitation.

4. 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.

5. If an emulsifiable concentrate formulation 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.

6. Continue filling the tank with water through the screen and add the required amount of this product near the end of the filling process.

7. If a nonionic surfactant is used, add it to the tank before completing the filling process.

8. Add individual formulations to the spray tank as follows: wettable powder, flowable, emulsifiable concentrate, drift control additive, water-soluble liquids (this product) followed by surfactant.

Maintain gentle agitation at all times until the contents of the tank are sprayed out. If the spray mixture is allowed to settle, thorough agitation is required to resuspend the mixture before spraying.

Keep by-pass and return lines on or near the bottom of the tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh.

7.4 Mixing for Hand-Held Sprayers

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

<table>
<thead>
<tr>
<th>Spray Solution</th>
<th>Desired Amount of Honcho herbicide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume</td>
<td></td>
</tr>
<tr>
<td>0.5%</td>
<td>1%</td>
</tr>
<tr>
<td>1%</td>
<td>1.5%</td>
</tr>
<tr>
<td>2%</td>
<td>5%</td>
</tr>
<tr>
<td>10%</td>
<td></td>
</tr>
</tbody>
</table>

| 1 gal         | 0.7 oz 1.3 oz 2 oz 2.7 oz 6.5 oz 13 oz |
| 25 gal        | 1 pt 1 qt 1.5 qt 2 qt 5 qt 10 qt      |
| 100 gal       | 2 qt 1 gal 1.5 gal 2 gal 5 gal 10 gal |

When using ammonium sulfate, apply this product at rates recommended in this label. Lower rates will result in reduced performance.
7.7 Colorants or Dyes
Colorants or marking dyes may be added to spray solutions of this product, however, they can reduce performance. Use colorants or dyes according to the manufacturer’s recommendations.

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

8.0 APPLICATION EQUIPMENT AND TECHNIQUES
Do not apply this product through any type of irrigation system. This product may be applied with the following application equipment.

Aerial—Fixed wing and helicopter.

Ground Broadcast Spray—Boom or boomless systems, pull-type sprayers, floaters, pick-up sprayers, spray coupes and other ground broadcast equipment.

Hand-Held or Backpack Spray Equipment—Backpack sprayers, pump-up pressure sprayers, handguns, handwands, mistblowers*, lances and other hand-held and motorized spray equipment used to direct the spray onto weed foliage.

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

Injection Systems—Aerial or ground injection sprayers.

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

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING THE DESIRED VOLUMES.

8.1 Aerial Equipment
DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT EXCEPT UNDER CONDITIONS SPECIFIED IN THIS LABEL.

All labeled treatments may be made by aerial equipment where appropriate, provided that the applicator complies with the precautions and restrictions specified on this product’s labeling. Use the recommended rates of this herbicide in 3 to 15 gallons of water per acre unless otherwise specified on this label. Unless otherwise specified, do not exceed 2 quart per acre. Refer to the individual use area sections of this label for further instructions.

FOR AERIAL APPLICATION IN ARKANSAS OR CALIFORNIA, OR SPECIFIC COUNTIES THEREIN, REFER TO THE FEDERAL SUPPLEMENTAL LABEL FOR AERIAL APPLICATIONS IN THAT STATE OR COUNTY FOR SPECIFIC INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS.

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

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

AERIAL SPRAY DRIFT MANAGEMENT
The following drift management requirements must be followed to avoid off-target movement during aerial applications to agricultural field crops.

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

2. Nozzles must always point backward, parallel with the air stream and never be pointed downwards more than 45 degrees. Comply with all State regulations where applicable.

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 applications are made improperly, or under unfavorable environmental conditions (read the following sections on “Wind”, “Temperature and Humidity”, and “Temperature Inversions”).

Controlling Droplet Size

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

- **Pressure**: Use the lower spray pressures recommended 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 spray pressure.

- **Number of nozzles**: Use the minimum number of nozzles that will provide uniform coverage.

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

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

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

- **Application height**: Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces the exposure of the droplets to evaporation and wind.

Swath Adjustment
When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind speed, smaller droplets, etc.).

Wind
Drift potential is lowest between wind speeds of 2 to 10 miles per hour. However, many factors, including droplet size and equipment type, determine drift potential at any given wind speed. Application should be avoided when wind speeds are below 2 miles per hour due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift.

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

Temperature Inversions
Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain 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, the movement of smoke produced by a ground source or an aircraft smoke generator can also identify temperature inversions. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

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

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

8.2 Ground Broadcast Equipment
Apply the product rates recommended in this label in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified. As density of weeds increases, spray volume should be increased within the recommended range to ensure complete coverage. Carefully select proper nozzles to avoid generating a fine mist. For best results with ground application equipment, use flat spray nozzles. Check spray pattern for uniform distribution.

8.3 Hand-Held or Backpack Equipment
Apply to foliage of vegetation to be controlled on a spray-to-wet basis; do not spray to the point of runoff. Spray coverage should be uniform and complete. Use coarse sprays only. For recommended rates and timing, refer to the “ANNUAL WEEDS—HAND-HELD OR BACKPACK EQUIPMENT” section of this product label.
These procedures will reduce the potential for crop injury:

- Use low-drift nozzles that provide uniform coverage within the treated area.
- Operate at ground speeds of no greater than 5 miles per hour to avoid bouncing of the spray hood.
- Apply when wind speeds are 10 miles per hour or less.
- Use controlled droplet applicators produce a spray pattern that is not easily visible. Extreme care must be taken to avoid contact of herbicide with desirable vegetation.
- For rope or sponge wick applicators, do not apply more than 0.1 fluid ounces per foot of application.
- For injection systems, applications must be made at least 30 days prior to planting. Unless otherwise specified in this product's labeling, treatments with selective equipment including wipers and hooded sprayers must be made at least 14 days prior to harvest. Post-harvest or fallow applications must be made at least 30 days prior to planting any crop not listed in this label, applications must be made according to the rates listed in its labeling to control tough weeds take precedence over the general rates listed in this label. Not otherwise specified, weed control applications may be made up to a maximum of 8 quarts of this product per acre per year.

In crops where spot treatments are allowed, do not treat more than 10 percent of the total field to be harvested. Crop sprayed in treated area will be killed. Take care not to spray or allow spray to drift outside the target area in order to avoid unwanted crop destruction.

For broadcast postemergence treatments, do not harvest or feed treated vegetation for 8 weeks following application, unless otherwise specified.
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.

PRECAUTIONS, RESTRICTIONS: Do not treat rice fields or levees when flooded.

TYPES OF APPLICATIONS: Those listed in Section 9.0 plus the following: Red Rice Control Prior to Planting Rice, Spot Treatment (Except Rice), Over-The-Wiper Application (Feed Barley and Wheat Only), Preharvest (Wheat And Feed Barley Only).

Preplant, Preemergence, At-Planting

USE INSTRUCTIONS: This product may be applied before, during or after planting of cereal crops. Applications must be made prior to crop emergence.

TANK MIXTURES: In wheat, a tank mix with Amin may be used.

Red Rice Control Prior to Planting Rice

USE INSTRUCTIONS: Apply 1.5 quarts of this product in 5 to 10 gallons of water per acre. Flush fields prior to application to obtain uniform germination and stand of red rice. Make application 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 3 true leaves may be only partially controlled.

PRECAUTIONS, RESTRICTIONS: Avoid spraying during conditions of low humidity, as reduced control may result. Do not treat rice fields or levees when the fields contain floodwater. Do not flood treated fields for 6 days following application.

Spot Treatment (Except Rice)

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

PRECAUTIONS, RESTRICTIONS: Do not treat more than 10 percent of the total field area to be harvested. Crop sprayed in treated area will be killed. Take care not to spray or to allow spray to drift outside target area to avoid unwanted crop destruction.

Over-the-Top Wiper Application (Feed Barley and Wheat Only)

USE INSTRUCTIONS: Wiper applications may be used in wheat and feed barley. To control common rye or cereal rye, apply after the weeds have headed and achieved maximum growth.

PRECAUTIONS, RESTRICTIONS: Allow at least 35 days between application and harvest. Do not use roller applicators. Droplets, mist, foam or splatter of the herbicide solution settling on desirable vegetation may result in discoloration, stunting or destruction.

Preharvest (Feed Barley And Wheat Only)

USE INSTRUCTIONS: This product provides weed control when applied prior to harvest of feed barley or wheat. For feed barley, apply after the hard-dough stage of grain (30 percent or less grain moisture). For feed barley, apply after the hard-dough stage and when the grain contains 20 percent moisture or less. Stubble may be grazed immediately after harvest.

For ground applications, apply this product in 10 to 20 gallons of water per acre. For aerial applications, apply this product in 5 to 10 gallons of water per acre.

PRECAUTIONS, RESTRICTIONS: Do not apply more than 1 quart of this product per acre. Allow 7 days between application and harvest or grazing. Preharvest application is not recommended for barley or wheat grown for seed, as a reduction in germination or vigor may occur.

Post-Harvest

USE INSTRUCTIONS: This product may be applied after harvest of cereals. Higher rates may be required for control of large weeds that were growing in the crop at the time of harvest. Tank mixtures with 2.4-D or dicamba may be used.

PRECAUTIONS, RESTRICTIONS: For any crop not listed on this label, applications must be made at least 30 days prior to planting the next crop. Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation.

9.2 Corn

TYPES OF CORN: Field corn, Seed corn, Silage corn, Sweet corn and Popcorn.

TYPES OF APPLICATIONS: Those listed in Section 9.0 plus the following: Spot Treatment, Preharvest.

Use directions for corn containing a glyphosate tolerant gene are in 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 corn. Applications must be made prior to crop emergence.

TANK MIXTURES: This product may be tank-mixed with the following products to provide residual weed control, a broader weed control spectrum or an alternate mode of action. Ensure that the specific product is registered for application prior to planting corn. Apply these tank mixtures in 10 to 20 gallons of water to 10 to 60 gallons of nitrogen solution per acre.

2,4-D

<table>
<thead>
<tr>
<th>Herbicide</th>
<th>Degree</th>
<th>Herbicide</th>
<th>Degree</th>
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</thead>
<tbody>
<tr>
<td>Aim</td>
<td>Balance/Balance PRO</td>
<td>Bicep</td>
<td>Bicep MAGNUM</td>
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<tr>
<td>alachlor</td>
<td>Banvel/Clarity</td>
<td>MAGNUM</td>
<td>II MAGNUM</td>
</tr>
<tr>
<td>atrazine</td>
<td>Bicep</td>
<td>Bullet</td>
<td>Dual MAGNUM</td>
</tr>
<tr>
<td>Axiom</td>
<td>Degree Xtra</td>
<td>Distinct</td>
<td>Dual II MAGNUM</td>
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Epic

<table>
<thead>
<tr>
<th>Herbicide</th>
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<tbody>
<tr>
<td>Frontier/Outlook</td>
<td>Lariat</td>
</tr>
<tr>
<td>Fultime</td>
<td>Leadoff</td>
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<tr>
<td>Guard/Man/ Guardman MAX</td>
<td>Line/Lorox</td>
</tr>
<tr>
<td>Harness</td>
<td>Keystone LA</td>
</tr>
<tr>
<td>Harness Xtra</td>
<td>Marksmen</td>
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<tr>
<td>Harness Xtra 5.6L</td>
<td>Micro-Tech</td>
</tr>
</tbody>
</table>

For tough-to-control annual weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrasses up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 2 pints per acre in these tank mixtures. For other labeled annual weeds, apply 1.5 to 2 pints of this product per acre when weeds are less than 6 inches tall, and 2 to 3 pints per acre when weeds are 1 to 2 inches tall. When using nitrogen solutions as the carrier, use rate may need to be increased for acceptable weed control.

PRECAUTIONS, RESTRICTIONS: Applications of 2,4-D or dicamba must be at least 7 days prior to planting corn. For more information see the “TANK MIXTURES” and “TANK MIXING PROCEDURES” sections of this label.

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

Hooded Sprayers

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

PRECAUTIONS, RESTRICTIONS: Corn must be at least 12 inches tall, measured without extending leaves. Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage. Such damage shall be the sole responsibility of the applicator. Do not apply more than 1 quart of this product per acre for each application and no more than 3 quarts per acre per year for hooded sprayer applications.

Spot Treatment

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

PRECAUTIONS, RESTRICTIONS: Do not treat more than 10 percent of the total field area to be harvested. Crop sprayed in the treated area will be killed. Take care not to spray or to allow spray to drift outside target area to avoid unwanted crop destruction.

Preharvest

USE INSTRUCTIONS: Make applications at 35 percent grain moisture or less. Ensure that maximum kernel fill is complete and the corn is physiologically mature (black layer formed). For ground applications, apply up to 3 quarts of this product per acre. For aerial applications, apply up to 2 quarts of this product per acre.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 7 days between application and harvest. Preharvest application is not recommended for corn grown for seed, as a reduction in germination or vigor may occur.

Post-Harvest

USE INSTRUCTIONS: This product may be applied after harvest of corn. Higher rates may be required to control large weeds that were growing in the crop at the time of harvest. Tank mixtures with 2.4-D or dicamba may be used.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation.

9.3 Cotton

TYPES OF APPLICATIONS: Those listed in Section 9.0 plus the following: Selective Equipment, Spot Treatment, Preharvest.

Use directions for cotton containing a glyphosate tolerant gene are in 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. Applications must be made prior to crop emergence.

TANK MIXTURES: This product may be tank-mixed with the following products provided that the specific product being used is registered for application prior to planting cotton. Apply these tank mixtures in 10 to 20 gallons of water per acre.

Caporal

<table>
<thead>
<tr>
<th>Herbicide</th>
<th>Degree</th>
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</thead>
<tbody>
<tr>
<td>Direx</td>
<td>Probel</td>
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<tr>
<td>Clarity</td>
<td>Probel H2O</td>
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<tr>
<td>Command</td>
<td>Staple</td>
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<tr>
<td>Cotoran</td>
<td>Stalwart</td>
</tr>
<tr>
<td>Cotton PRO</td>
<td>Zoral</td>
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</tbody>
</table>

PRECAUTIONS, RESTRICTIONS: For more information see the “TANK MIXTURES” and “TANK MIXING PROCEDURES” sections of this label.

Selective Equipment

USE INSTRUCTIONS: This product may be applied through hooded sprayers, shielded sprayers or wiper applicators in cotton. Additional instructions on the use of selective
equipment are found in the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label.

PRECAUTIONS, RESTRICTIONS: Allow at least 7 days between application and harvest.

Spot Treatment

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

PRECAUTIONS, RESTRICTIONS: Do not treat more than 10 percent of the total field area
to be harvested. Crop sprayed in the treated area will be killed. Take care not to spray
or to allow spray to drift outside target area to avoid unwanted crop destruction.

Preharvest

USE INSTRUCTIONS: This product provides weed control and cotton regrowth inhibition
when applied prior to harvest of cotton. For weed control, apply at rates given in the
"ANNUAL WEEDS", and "PERENNIAL WEEDS RATE SECTIONS" of this label. For cotton
regrowth inhibition, apply 1 pint to 2 quarts of this product per acre.

Up to 2 quarts of this product may be applied after sufficient rains have developed to
produce the desired yield of cotton. Applications made prior to this time could affect
maximum yield potential.

TANK MIXTURES: This product may be tank mixed with DET 6, Folex, Ginstar, or Prep
to provide additional enhancement of cotton leaf drop.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 7 days between application and
harvest of cotton. Preharvest application is not recommended for cotton grown for seed,
as a reduction in germination or vigor may occur. THE USE OF ADDITIVES FOR PREHAR-
VEST APPLICATION OF THIS PRODUCT TO COTTON IS PROHIBITED. For more information,
see the "TANK MIXTURES" and "TANK MIXING PROCEDURES" sections of this label.

9.4 Fallow Systems

LABELED CROPS: This product may be applied during the fallow period prior to planting
or emergence of any crop listed on this label; for non-listed crops, applications must be
made at least 30 days prior to planting.

TYPES OF APPLICATIONS: 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. Also, broadcast or spot treatments will control or sup-
press many perennial weeds in fallow fields. Tank mixtures of this product with 2,4-D
and dicamba may be used for a broader weed control spectrum. Applications up to 2
quarts per acre may be made by aerial application onto fallow sites where there is
sufficient buffer to prevent injury due to drift onto adjacent crops.

PRECAUTIONS, RESTRICTIONS: Do not apply dicamba tank mixtures by air in California.
Refer to the specific product labels for crop rotation restrictions and cautionary state-
ments of all products used in tank mixtures. Some crop injury may 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", "PERENNIAL WEEDS" and "WOODY BRUSH AND TREES RATE SECTIONS" of this label
prior to planting.

TANK MIXTURES: Use 12 fluid ounces of this product, plus 2 to 3 fluid ounces of Goal
2XL, per acre to control the following weeds up to the maximum height, diameter or
length indicated: 3 inches—common cheeseweed, chickweed, groundsel, 6 inches—London rocket, shepherd’s-purse.

Use 16 fluid ounces of this product, plus 2 to 3 fluid ounces of Goal 2XL, per acre
to control the following weeds up to the maximum height, diameter or length indicated: 6 inches—common cheeseweed, groundsel, marestail (Cenchrus canadensis), 12 inches—chickweed, London rocket, shepherd’s-purse.

Aid-to-Tillage

USE INSTRUCTIONS: This product may be used in conjunction with tillage practices in
fallow systems or preplant to labeled crops to control downy brome, cheat, volunteer
wheat, tarns and fétid flax. Apply 12 fluid ounces of this product in 3 to 10 gal-
lons of water per acre before weeds are 6 inches in height. Application must be followed
by conventional tillage practices no later than 15 days after treatment and before
regrowth occurs. Allow at least 1 day after application before tillage.

PRECAUTIONS, RESTRICTIONS: Tank mixtures with residual herbicides may result in
reduced product performance.

9.5 Grain Sorghum (Milo)

TYPES OF APPLICATIONS: Those listed in Section 9.9 plus the following. Spot Treatment,
Over-the-Top Wiper Application, Preharvest.

Preplant, At-Planting, Preemergence

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

TANK MIXTURES: Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gal-
lons of nitrogen solution per acre, provided that the specific product being used is
labeled for application prior to planting grain sorghum.

azafrine INTRO®
Bicep II MAGNUM Lariat
Bullet Micro-Tech
Dual II MAGNUM

For tough-to-control annual weeds such as fall panicum, bermudagrass, crabgrass,
shamrock and broadleaf signalgrasses up to 2 inches tall, and Pennsylvania smartweek
up to 6 inches tall, apply a tank mixture of this product at 2 pints per acre plus the prod-
ucts listed above. For more information see the “TANK MIXTURES” and “TANK MIXING PROCEDURES” sections of this label.

For other labeled annual weeds, apply 1.5 to 2 pints of this product per acre when weeds
are less than 6 inches tall, and 2 to 3 pints per acre when weeds are over 6 inches tall.
When using nitrogen solutions as the carrier, the use rate may need to be increased for
acceptable weed control.

Spot Treatment, Over-the-Top Wiper Application

USE INSTRUCTIONS: This product may be applied as a spot treatment in grain sorghum
before heading. This product may be applied with wiper applicators to control or sup-
press tall weeds. For additional instructions, see “Wiper Applicators” in the "SELECT-
IVE EQUIPMENT" section of this label.

PRECAUTIONS, RESTRICTIONS: For spot treatment, do not treat more than 10 percent
of the total field area to be harvested. Crop sprayed in treated area will be killed. Take
care not to spray or to allow spray to drift outside target area to avoid unwanted crop destruc-
tion. Allow at least 40 days between wiper application and harvest. Do not use roller
applicators. Do not feed or graze treated milo fodder. Do not ensile treated vegetation.

Hooded Sprayers

USE INSTRUCTIONS: This product may be applied with hooded sprayers for weed con-
trol between the rows of milo. Only hooded sprayers that completely enclose the spray
pattern may be used. See additional instruction for the use of hooded sprayers in the
"APPLICATION EQUIPMENT AND TECHNIQUES" section of this label.

PRECAUTIONS, RESTRICTIONS: Milo must be at least 12 inches tall, measured without
extending leaves. Treat before milo sends tillers between the drill rows. If tillers are
sprayed, the main plant may be damaged or destroyed. Contact of this product in any
manner to any vegetation to which treatment is not intended may cause damage, which
shall be the sole responsibility of the applicator. Do not graze or feed milo forage or fod-
der following hooded sprayer applications. Do not apply more than 1 quart of this product per acre per application and no more than 3 quarts per acre per year for hooded sprayer applications.

Preharvest

USE INSTRUCTIONS: This product may be applied for weed control prior to harvest
after sorghum grain has reached 30 percent grain moisture or less.

PRECAUTIONS, RESTRICTIONS: Do not apply more than 2 quarts of this product per
acre. As with other herbicides that cause sudden plant death, avoid preharvest appli-
cations of this product to milo infected with charcoal rot as lodging can occur. Allow
a minimum of 7 days between application and harvest of grain sorghum. Preharvest
application is not recommended for sorghum grown for seed, as a reduction in germi-
nation or vigor may occur. The use of this product for preharvest grain sorghum (milo)
is not registered in California.

Post-Harvest

USE INSTRUCTIONS: This product may be applied after harvest of grain sorghum. Higher
rates may be required to control large weeds that were growing in the crop at the time
of harvest. Tank mixtures with 2,4-D or dicamba may be used. This product may be
applied to grain sorghum (milo) stubble following harvest to sup-
press or control regrowth. Apply 1 quart of this product per acre for control, or 1.5 pints
of this product per acre for suppression.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 7 days between treatment and
harvest or feeding of treated vegetation.

9.6 Herbs and Spices

LABELED CROPS: Allspice, Angelica, Star anise, Amnatto (seed), Balm, Basil, Borage,
Burnet, Camomile, Caper buds, Caraway, Black caraway, Cardamom, Cassia bark,
Cassia buds, Celery seed, Cherovl (dried), Chive, Chinese chive, Cinnamon, Coral
Clave buds, Coriander leaf (cilantro or chinese parsley), Coriander seed (cilantro),
Costmary, Culantro (leaf), Culantro (seed), Cumin, Curry (leaf), Dill (dillweed), Dill
(Seed), Epazote, Fennel seed (common and Florence), Fenugreek, White ginger flower,
Grains of paradise, Horehound, Hyssop, Juniper berry, Lavender, Lemongrass,
Lavage (leaf and seed), Mace, Marigold; Marjoram (including oregano), Mexican
oregano, Mioga flower, Mustard (seed), Nasturtium, Nutmeg, Parsley (dried),
Pennyroyal, Pepper (black and white), Pepper leaves, Peppermint, Perilla, Poppy (seed),
Rosemary, Rue, Saffron, Sage, Savory (summer and winter), Spearmint, Stevia leaves,

TYPES OF APPLICATIONS: Those listed in Section 9.9 plus the following. Over-the-Top
Wiper Application (Peppermint and Spearmint Only), Spot Treatment (Peppermint and
Spearmint Only).

PRECAUTIONS, RESTRICTIONS: This product could cause crop injury. When applying this
product prior to transplanting or direct-seeding crops into plastic mulch, care must be
taken to remove product residues from the plastic prior to planting. Residual product
can be removed by a single 0.5-inch application of water, either by natural rainfall or by
irrigation. Care should be taken to ensure that the washwater flushes off the plastic
mulch and does not enter transplant holes. Applications made at emergence will result in injury or death to emerged seedlings.

**Over-the-Top Wiper Application, Spot Treatment (Peppermint and Spearmint Only)**

**USE INSTRUCTIONS:** This product may be applied as a spot treatment or over the top of peppermint or spearmint with wiper applicators in spearmint and peppermint. Apply spot treatments on a spray-to-wet basis with hand-held equipment, such as backpack sprayers, pump-up pressure sprayers, handguns, handwands or any other hand-held or motorized spray equipment used to direct the spray solution to a limited area.

**PRECAUTIONS, RESTRICTIONS:** Allow at least 7 days between application and harvest. Further applications may be made in the same area at 30-day intervals. In spot treat-ment applications, no more than 10 percent of the total field area to be harvested should be treated at one time. Crop sprayed in treated area will be killed. Take care not to spray or allow spray to drift outside the target area to avoid unwanted crop destruction. For wiper applications, contact of the herbicide solution with the crop may result in discoloration, stunting, or destruction.

### 9.7 Oil Seed Crops

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

Use directions for canola containing a glyphosate tolerant gene, are in the “ROUNDUP READY CROPS” section of this label.

**TYPES OF APPLICATIONS:** Those listed in Section 9.0.

**USE INSTRUCTIONS:** This product may be applied before, during or after planting oil seed crops listed in this section. Broadcast applications must be made prior to crop emergence. Wiper applicators or hooded sprayers may be used between the rows once the crop is established. See additional instructions of the use of selective equipment in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

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

**PRECAUTIONS, RESTRICTIONS:** For use with canola, do not apply more than 2 quarts of this product per acre. For use with sunflowers, do not apply more than 1 quart of this product per acre as a single preplant or preemergence application per year. Do not feed or graze sunflower forage following application of this product.

### 9.8 Soybeans

**TYPES OF APPLICATIONS:** Those listed in Section 9.0 plus the following: Spot Treatment, Preharvest, Selective Equipment.

Use directions for soybeans containing a glyphosate tolerant gene are in 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 soybeans. Applications must be made prior to crop emergence. TANK MIXTURES: This product may be tank-mixed with the following products to provide residual weed control, a broader spectrum, or an alternate mode of action. Ensure that the specific product being used in the tank mixture is registered for application prior to planting soybean, and follow all label directions of all products in the tank mixture. Apply these tank mixtures in 10 to 20 gallons of water per acre.

- **2,4-D** Dual MAGNUN Prowl
- **Aim** Dual II MAGNUN Pursuit
- **Assure II** FirstRate Pursuit Plus
- **Authority** Flexstar Python
- **Axom** Frontier/Outlook Reflex
- **Blanket** Fusion Resource
- **Boundary** Gauntlet Scoper
- **Canopy** Gangster Sencor/Lexone
- **Canopy EX** INTRO Squadron
- **Classic** Linex Steel
- **Command** Lorox/Linoxuron Valor
- **Command Xtra** Lorox Plus
- **Domain** Micro-Tech

For tough-to-control annual weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 2 pints per acre in these tank mixtures. For other labeled annual weeds, apply 1.5 to 2 pints of this product per acre when weeds are less than 6 inches tall, and 2 to 3 pints per acre when weeds are over 6 inches tall. For more information, see the “TANK MIXTURES” and “TANK MIXING PROCEDURES” sections of this label.

**Spot Treatment**

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

**PRECAUTIONS, RESTRICTIONS:** Do not treat more than 10 percent of the total field area to be harvested. Crop sprayed in treated area will be killed. Take care not to spray or allow spray to drift outside the target area to avoid unwanted crop destruction.

**Preharvest**

**USE INSTRUCTIONS:** This product may be applied for weed control prior to harvest of soybeans after pods have set and lost all green color. Apply at rates given in the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL WEEDS RATE SECTION.” Care should be taken to avoid excessive seed shatter loss due to ground application equipment.

**PRECAUTIONS, RESTRICTIONS:** Do not apply more than 5 quarts of this product per acre for preharvest applications. Do not apply more than 2 quarts of this product per acre by air. Allow a minimum of 7 days between application and harvest of soybeans. Do not graze or harvest treated hay or fodder for livestock feed within 25 days of last preharvest application. (If the application rate is 1 quart per acre or lower, the grazing restriction is reduced to 14 days after last preharvest application.) Preharvest application is not recommended for soybeans grown for seed, as a reduction in germination or vigor may occur.

**Selective Equipment**

**USE INSTRUCTIONS:** This product may be applied through shielded or hooded sprayers, wiper applicators or sponge bars in soybeans. Additional instructions on the use of selective equipment are found in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

**PRECAUTIONS, RESTRICTIONS:** Allow at least 7 days between application and harvest.

### 9.9 Sugarcane

**TYPES OF APPLICATIONS:** Those listed in Section 9.0 plus Spot Treatment, Sugarcane Ripening, 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.

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

**Spot Treatment**

**USE INSTRUCTIONS:** This product may be applied as a spot treatment in sugarcane. For control of volunteer or diseased sugarcane, apply a 1-percent solution of this product in water using a spray-to-wet technique. Volunteer or diseased sugarcane should have at least 7 new leaves.

**PRECAUTIONS, RESTRICTIONS:** Avoid spray contact with healthy sugarcane plants since severe damage or destruction may result. Do not feed or graze treated sugarcane foliage following application.

**Fallow Treatments**

**USE INSTRUCTIONS:** This product may be used as a replacement for tillage in fields that are lying fallow between sugarcane crops. This product may also be used to remove the last stubble of ratoon cane. For removal of last stubble of ratoon cane, apply 4 to 5 quarts of this product in 10 to 40 gallons of water per acre to new growth having at least 7 new leaves. Allow 7 or more days after application before tillage. Applications up to 3 quarts per acre may be made by aerial application in fallow sites where there is sufficient buffer to prevent drift onto adjacent crops. Tank mixtures with 2,4-D and dicamba may be used.

**Hooded Sprayers**

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

**PRECAUTIONS, RESTRICTIONS:** Crop injury may occur when the foliage of treated weeds contact the crop. Do not apply this product when crop leaves are growing in direct contact with weeds to be treated. Droplets, mist, foam or splatter of the herbicide solution settling on the crop may result in discoloration, stunting or destruction. Such damage shall be the sole responsibility of the applicator.

**Sugarcane Ripening**

**USE INSTRUCTIONS:** This product may be applied to foliage as a plant growth regulator to hasten ripening and increase the level of sucrose in sugarcane. It is effective in both low- and high-tonnage sugarcane.

When applied as directed under the conditions described, this product will hasten ripening and extend the period of high sucrose level in sugarcane. As a result of leaf desiccation, improved trash burn can be expected. Most of the sucrose increase is concentrated in the top nodes of the treated sugarcane stalk. In order to maximize sugar where topping is practiced during harvest, top at the base of the fourth leaf.

**Application Rates:** Use the following application rates and timing instructions according to the State in which the sugarcane is grown.

- **FLORIDA**—Apply 7 to 12 fluid ounces of this product per acre to 3 to 5 weeks before harvest of LAST RATOON CANE ONLY.
- **HAWAII**—Apply 12 to 28 fluid ounces of this product per acre to 4 to 10 weeks before harvest.
- **LOUISIANA**—Apply 5 to 16 fluid ounces of this product per acre to 3 to 7 weeks before harvest of RATOON CANE ONLY.
- **PUERTO RICO**—Apply 7 fluid ounces of this product per acre to 3 to 5 weeks before harvest of RATOON CANE ONLY.
TEXAS—Apply 7 to 16 fluid ounces of this product per acre 3 to 5 weeks before harvest of RATOON CANE ONLY.

PRECAUTIONS, RESTRICTIONS: Prior to application, consult your state sugarcane authority or local Monsanto representative regarding the degree of sucrose response anticipated from the variety of sugarcane to be treated.

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

Rainfall within 6 hours after application may reduce effectiveness. Application is not recommended for sugarcane grown for seed, as a reduction in germination or vigor may occur.

Do not feed or graze treated sugarcane forage following application. Do not plant subsequent crops in treated fields other than the following for 30 days after application: alfalfa or other forage legumes, beans (all types), corn (all types), cotton, melons (all types), pasture grasses, peanuts, potatoes (Irish or sweet), sorghum (milo), soybeans, squash (all types) or wheat.

Do not apply for enhanced ripening to any crops other than sugarcane.

9.10 Vegetable Crops

NOTE: This “VEGETABLE CROPS” section gives general directions that apply to all vegetable crops listed alphabetically in the sections that follow. See the individual crop categories for specific instructions, PREHARVEST INTERVALS, PRECAUTIONS AND RESTRICTIONS.

TYPES OF APPLICATIONS: Chemical Fallow, Preplant Fallow Beds, Preplant, At-Planting, Preemergence, Prior to Transplanting Vegetables, Hooded Sprayers in Row-Middles, Shielded Sprayers in Row-Middles, Viper Application in Row-Middles, Selective Equipment Applications (Non-barring Ginseng), Over-the-Top Wiper Application (Rubabagas Only), Spot Treatment or Preharvest (Dry Beans, Peas, Lentils, and Chickpeas Only).

PRECAUTIONS, RESTRICTIONS: This product could cause crop injury when applied prior to transplanting or direct-seeding crops into plastic mulch. Care must be taken to remove product residues from the plastic prior to planting. Residual product can be removed by a single 0.5-inch application of water, either by natural rainfall or by irrigation. Care should be taken to ensure that the washwater flushes off the plastic mulch and does not enter transplant holes. Applications made at emergence will result in injury or death to emerged seedlings.

Avoid contact of herbicide with foliage, green shoots or stems, bark, exposed roots (including those emerging from plastic mulch), or fruit of crops because severe crop injury or destruction may result. When making preemergence and at-planting applications, applications must be made before crop emergence to avoid severe crop injury. Apply before seed germination in coarse sandy soils to further minimize the risk of crop injury. In crops with vines, hooded sprayer, shielded sprayer and wiper applications to row-middles should be made prior to vine development otherwise severe injury or destruction may result. Unless otherwise specified in this product’s labeling, treatments with selective equipment including wipers and hooded sprayers must be made at least 14 days prior to harvest. Post-harvest or fallow applications must be made at least 30 days prior to planting any non-labeled crop. See “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label for additional information.

9.10.1 Brassica Vegetables

LABELED CROPS: Broccoli, Chinese broccoli (gai lan), Broccoli raab (rapini), Brussels sprouts, Cabbage, Cabbage (bok choy), Chinese cabbage (napa), Chinese mustard cabbage (gai choi), Cauliflower, Cavelo broccoli, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens.

9.10.2 Bulb Vegetables

LABELED CROPS: Garlic, Great-headed garlic, Leek, Onion (dry bulb and green), Welsh onion, Shallot.

9.10.3 Cucurbit Vegetables and Fruits

LABELED CROPS: Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Edible gourd (includes hyotan, cucuzza, hechima, Chinese okra), Melons (all), Morosocarpus sip (includes balsam apple, balsam pear, bittermelon, Chinese cucumber), Muskmelon (includes cantaloupe, casaba, chrenshaw melon, gold-en pershaw melon, honeydew melon, honey ball melon, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon), Pumpkins, Summer squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Winter squash (includes butternut squash, calabaza, Hubbard squash, acorn squash, spaghetti squash), Watermelon.

PRECAUTIONS, RESTRICTIONS: For cantaloupe, casaba melon, chrenshaw melon, cucumber, gherkin, gourds, honeydew melon, honey ball melon, mango melon, melons (all), muskmelon, Persian melon, pumpkin, squash (summer, winter), and watermelon, allow at least 3 days between application and planting.

9.10.4 Leafy Vegetables

LABELED CROPS: Amaranth (Chinese spinach), Arugula (roquette), Beet greens, Cardoon, Celery, Chinese celery, Celuce, Chiaya, Cherrv, Edible-leaved chrysanthemum, Garland chrysanthemum, Corn salad, Cress (garden and upland), Dandelion, Dock (core), Dockadum, Endive (escarole), Florence fennel, Gou kew, Lettuce (head and leaf), Orach, Parsley, Purslane (garden and winter), Radiocchio (red chicory), Rhubarb, Spinach, New Zealand spinach, Vine spinach, Swiss chard, Watercress (upland), Water spinach.

PRECAUTIONS, RESTRICTIONS: For watercress, avoid applications within 3 days prior to seeding and during the period between seeding and emergence to minimize the risk of crop injury.

9.10.5 Fruiting Vegetables

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

PRECAUTIONS, RESTRICTIONS: For eggplant, ground cherry, pepper (all), and tomatillo, allow at least 3 days between application and planting. For tomato and tomatillies grown on sandy soil, do not make hooded, shielded sprayer or wiper applications in row middles because of potential for crop injury.

9.10.6 Legume Vegetables (Succulent or Dried)

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

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

USE INSTRUCTIONS: This product may be applied as an over-the-top broadcast spray or as a spot treatment to control labeled weeds in dry beans, peas, lentils or chick peas. For spot treatment, to control troublesome weeds such as Canada thistle, quackgrass, mayweed, dog fennel, and milkweed, apply in 10 to 20 gallons of water per acre through ground broadcast spray equipment or use a 2-percent solution in a hand-held sprayer. For preharvest treatments, apply in 3 to 20 gallons of water per acre at the hard dough stage of the legume seed (30 percent grain moisture or less).

PRECAUTIONS, RESTRICTIONS: Follow the limitations listed in the table below. Only one application per year may be made; do not combine a preharvest spray with a spot treatment on the same crop area. Employ at least a 36-day plant-back interval between treatment and replanting for any crop not specified for treatment in this label. Do not feed treated vines and hay from these crops to livestock. Do not treat cowpeas or field (feed) peas, since these crops are considered to be grown as livestock feed. Preharvest application is not recommended for dry legumes grown for seed, as a reduction in germination or vigor may occur.

<table>
<thead>
<tr>
<th>Crop</th>
<th>Maximum Rate (fluid ounces/acre)</th>
<th>Minimum Preharvest Interval (days)</th>
<th>Allowed In</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Beans</td>
<td>32</td>
<td>7</td>
<td>All States</td>
</tr>
<tr>
<td>Dry Peas, Lentils, and Chickpeas</td>
<td>26</td>
<td>14</td>
<td>Colorado, Idaho, Iowa, Minnesota, Montana, Nebraska, North Dakota, Oregon, South Dakota, Washington and Wisconsin</td>
</tr>
</tbody>
</table>

9.10.7 Root and Tuber Vegetables

LABELED CROPS: Arracacha, Arrowroot, Chinese artichoke, Jerusalem artichoke, Beet (garden), Burdock, Canna, Carrot, Cassava (bitter and sweet), Celeriac, Chayote (root), Chervil (turnip-rooted), Chicory, Chufa, Daasehen (taro), Galangal, Ginger, Ginseng, Horseradish, Leren, Kava (turnip-rooted), Parsley (turnip-rooted), Parsnip, Potato, Radish, Oriental radish, Rutabaga, Satlbs, Sack, Spanish satlbs, Skrell, Sweet potato, Taro, Turmeric, Turnip, Wasabi, Yacon, Yam bean, True yam.

Selective Equipment Applications (Non-Barring Ginseng Only)

USE INSTRUCTIONS: This product may be applied for general weed control in established non-barring ginseng. Applications may be made with boom equipment, CDA, shielded sprayers, hand-held and backpack wands, lances, and orchard guns or with wiper application equipment. See additional instructions under “SELECTIVE EQUIPMENT” in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

PRECAUTIONS, RESTRICTIONS: Conduct applications so that there is no contact of this product with the ginseng plant. Droplets, mist, foam or splatter of the herbicide solution settling onto desirable vegetation may result in discoloration, stunting or destruction. Applications must be made at least one year prior to harvest.
Over-the-Top Wiper Application (Rutabagas Only)

USE INSTRUCTIONS: Wiper applicators may be used over the top of rutabagas for the control of taller weeds. See additional instructions under “SELECTIVE EQUIPMENT” in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

PRECAUTIONS, RESTRICTIONS: Allow at least 14 days between application and harvest of rutabagas. Droplets, mist, foam or splatter of the herbicide solution settling onto desirable vegetation may result in discoloration, stunting or destruction.

9.11 Miscellaneous Crops

LABELED CROPS: Aloe vera, Asparagus, Bamboo shoots, Globe artichoke, Okra, Peanut (ground nut), Pineapple, Strawberry, Sugar beet.

TYPES OF APPLICATIONS: Those listed in Section 9.0 plus the following: General Weed Control, Site Preparation, Spot Treatment (Asparagus).

Use directions for sugar beets containing a glyphosate tolerant gene are in the “ROUNDUP READY CROPS” section of this label.

PRECAUTIONS, RESTRICTIONS: Avoid contact of this product with foliage, green shoots or stems, bark, exposed roots (including those emerging from plastic mulch), or fruit of crops because severe crop injury or destruction may result. When making pre-emergence and at-planting applications, applications must be made before crop emergence to avoid severe crop injury. Apply before seed germination in coarse sandy soils to further minimize the risk of crop injury. In crops with vines, hooded sprayer, shielded sprayer and wiper applications to row-middles should be made prior to vine development otherwise severe injury or destruction may result. Unless otherwise specified in this product’s labeling, treatments with selective equipment including wipers and hooded sprayers must be made at least 14 days prior to harvest. Post-harvest or fallow applications must be made at least 30 days prior to planting any crop not listed on this label. See additional information in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

General Weed Control, Site Preparation

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

PRECAUTIONS, RESTRICTIONS: This product could cause crop injury when applied prior to transplanting or direct-seeding crops into plastic mulch. Care must be taken to remove residues of this product from the plastic prior to planting. Residual product can be removed by a single 0.5-inch application of water, either by natural rainfall or by irrigation. Care should be taken to ensure that the wash water flushes off the plastic mulch and does not enter transplant holes. Allow at least 21 days between residue removal and transplanting. Applications made at emergence will result in injury or death to transplant emergent seedlings. Do not apply within a week before the first asparagus spears emerge. Do not feed or remove and transplanting. Applications made at emergence will result in injury or death to transplant emergent seedlings. Allow at least 14 days between application and harvest of rutabagas. Do not add ammonium sulfate.

Strips (In Rows)

TANK MIXTURES: This product may be applied within rows of tree or vine crops in tank mixtures with the following products, provided that the label of the specific product used permits the desired use:

- Dverito 50 DF
- Dverito 10 DF Simazine 80W
- Goal 2XL Sim-trin 4L
- Karmex DF Simazine 4L
- Irovar I Surfame 75W
- Prowl I Surfame AS
- Princep Caliber 90

Do not apply these tank mixtures in Puerto Rico.

Use directions for use of all products being used in the tank mixture.

Perennial Grass Suppression

For suppression of bahiagrass, apply 6 to 8.5 fluid ounces of this product per acre to control or suppress seedhead development of bahiagrass for approximately 45 days. Apply 6 fluid ounces of this product in 10 to 25 gallons of water per acre. Apply 1 to 2 weeks after full greenup or after mowing to a uniform height of 3 to 4 inches. This application must be made prior to seedhead development. For suppression up to 120 days, apply 4 fluid ounces of this product per acre, followed by an application of 2 to 4 fluid ounces per acre about 45 days later. Make no more than 2 applications per year.

For burndown of Bermudagrass, apply 1 to 2 quarts of this product in 3 to 20 gallons of water per acre. Use this treatment only if reduction of the Bermudagrass stand can be tolerated. When burndown is required prior to harvest, allow at least 21 days to ensure sufficient time for burndown to occur. For suppression of Bermudagrass, apply 6 to 16 fluid ounces of this product per acre east of the Rocky Mountains and 16 fluid ounces of this product per acre west of the Rocky Mountains. Apply in a total spray volume of 3 to 20 gallons per acre, no sooner than 1 to 2 weeks after full greenup. If the Bermudagrass is mowed prior to application, maintain a minimum of 3 inches in height. Sequential applications may be made when regrowth occurs and Bermudagrass injury and stand reduction can be tolerated. East of the Rocky Mountains, rates of 6 to 10 fluid ounces of this product per acre should be used in shaded conditions or where a lesser degree of suppression is desired.
USE INSTRUCTIONS: Cut stump applications of this product may be made during site preparation or site renovation, prior to transplanting tree crops. This product will control regrowth of cut stumps and resprouts of many types of tree species, some of which are listed below:

- **Citrus Trees**: Calamondin, Chironja, Citron, Citrus hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (all), Pummelo, Tangelo (ugli), Tangor.
- **Fruit Trees**: Apple, Apricot, Cherry (sweet, sour), Crabapple, Loquat, Mayhaw, Nectarine, Olive, Peach, Pear, Plum/Prune (all), Quince.
- **Nut Trees**: Almond, Beechnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory Nut, Macadamia, Pecan, Pistachio, Walnut (black, English).

**PRECAUTIONS, RESTRICTIONS**: Make applications only after cranberries have been harvested. Allow a minimum of 30 days between last application and harvest of cranberries. Allow a minimum of 10 days between last application and harvest of other berry crops.

**TYPES OF APPLICATIONS**: Those listed in Section 10.0, plus Spot Treatment in Cranberry Production and Post-Harvest Treatment in Cranberry Production.

**USE INSTRUCTIONS**: Cut stump applications of this product may be made during site preparation or site renovation, prior to transplanting tree crops. This product will control regrowth of cut stumps and resprouts of many types of tree species, some of which are listed below:

- **Citrus Trees**: Calamondin, Chironja, Citron, Citrus hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (all), Pummelo, Tangelo (ugli), Tangor.
- **Fruit Trees**: Apple, Apricot, Cherry (sweet, sour), Crabapple, Loquat, Mayhaw, Nectarine, Olive, Peach, Pear, Plum/Prune (all), Quince.
- **Nut Trees**: Almond, Beechnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory Nut, Macadamia, Pecan, Pistachio, Walnut (black, English).

**PRECAUTIONS, RESTRICTIONS**: Make applications only after cranberries have been harvested. Allow a minimum of 30 days between last application and harvest of cranberries. Allow a minimum of 10 days between last application and harvest of other berry crops.

**TYPES OF APPLICATIONS**: Those listed in Section 10.0, plus Spot Treatment in Cranberry Production and Post-Harvest Treatment in Cranberry Production.

**USE INSTRUCTIONS**: Cut stump applications of this product may be made during site preparation or site renovation, prior to transplanting tree crops. This product will control regrowth of cut stumps and resprouts of many types of tree species, some of which are listed below:

- **Citrus Trees**: Calamondin, Chironja, Citron, Citrus hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (all), Pummelo, Tangelo (ugli), Tangor.
- **Fruit Trees**: Apple, Apricot, Cherry (sweet, sour), Crabapple, Loquat, Mayhaw, Nectarine, Olive, Peach, Pear, Plum/Prune (all), Quince.
- **Nut Trees**: Almond, Beechnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory Nut, Macadamia, Pecan, Pine nut, Pistachio, Walnut (black, English).

**PRECAUTIONS, RESTRICTIONS**: Make applications only after cranberries have been harvested. Allow a minimum of 30 days between last application and harvest of cranberries. Allow a minimum of 10 days between last application and harvest of other berry crops.

**TYPES OF APPLICATIONS**: Those listed in Section 10.0, plus Spot Treatment in Cranberry Production and Post-Harvest Treatment in Cranberry Production.

**USE INSTRUCTIONS**: Cut stump applications of this product may be made during site preparation or site renovation, prior to transplanting tree crops. This product will control regrowth of cut stumps and resprouts of many types of tree species, some of which are listed below:

- **Citrus Trees**: Calamondin, Chironja, Citron, Citrus hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (all), Pummelo, Tangelo (ugli), Tangor.
- **Fruit Trees**: Apple, Apricot, Cherry (sweet, sour), Crabapple, Loquat, Mayhaw, Nectarine, Olive, Peach, Pear, Plum/Prune (all), Quince.
- **Nut Trees**: Almond, Beechnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory Nut, Macadamia, Pecan, Pine nut, Pistachio, Walnut (black, English).
10.8 Tropical and Subtropical Trees and Fruits

LABELED CROPS: Ambarella, Atemoya, Avocado, Banana, Barbados cherry (acelhí), Bibita, Blimbe, Breadfruit, Cacao (cocoa) bean, Canistel, Carambola (starfruit), Cherimoya, Coffee, Custard apple, Dates, Durian, Feijoa, Figs, Governor’s plum, Guava, Ilama, Imbu, Jaboricaba, Jackfruit, Longan, Lychee, Maamey apple, Mango, Mangosteen, Marmaladebox (gerip), Mountain papaya, Papaya, Pawpaw, Plantain, Persimmon, Pomegranate, Pulasan, Rambutan, Rose apple, Sapodilla, Sapote (black, maamey, white), Spanish lime, Sourpuss, Star apple, Sugar apple, Surinam cherry, Tamarind, Tea, Ti (roots and leaves), Wax jambu.

TYPES OF APPLICATIONS: Those listed in Section 10.0, and as described below as a Bananacan (Banananas Only).

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 1 day between last application and harvest in banana, guava, papaya, and plantain crops. Allow a minimum of 14 days between last application and harvest for any other tropical or subtropical fruit crop listed. Allow a minimum of 28 days between last application and harvest in coffee crops. In coffee and banana, delay applications 3 months after transplanting to allow the new coffee or banana plant to become established.

Bananacan (Banananas Only)

USE INSTRUCTIONS: This product may be used to destroy banana plants infected with the Banana Bunch Top Virus, as well as non-infected banana plants in order to establish disease free buffers around plantations. Remove all fruit from the plants within the treatment area prior to treatment. Inject 0.04 fluid ounce (1 milliliter) of this product’s concentrate and inject into the plant at least one foot above the ground, except for very small plants, which should be injected vertically into the top. Any subsequent regrowth must also be destroyed. All plants and mats (or units) within a 4-foot radius around a treated mat should be mechanically destroyed. For control of the Banana Bunch 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 may not show symptoms of the Banana Bunch Top Virus for up to 125 days, therefore it is critical that the entire mat (or unit) containing the diseased plant be destroyed immediately.

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

10.9 Vine Crops

LABELED CROPS: Grapes (raisin, table, wine) Hops, Ikiwi, Passion fruit.

TYPES OF APPLICATIONS: Those listed in Section 10.0.

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

In the northeast and Great Lakes regions, apply this product in grape vineyards prior to the end of the bloom stage of grapes in order to avoid crop injury, or apply using shielded sprayers or wiper equipment.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 14 days between last application and harvest of vine crops. Do not use selective equipment in kiwi.

11.0 PASTURE GRASSES, FORAGE LEGUMES AND RANGELANDS

GENERAL USE INSTRUCTIONS: Refer to the “ANNUAL WEEDS” and “PERENNIAL WEEDS RATE SECTIONS” of this label for rate recommendations for specific weeds. When applied as directed, this product will control annual and perennial grasses and broadleaf weeds. Recommended rates of this product specified on this label for the control of tough weeds, or those specified on separate supplemental labeling for this product, supersede rates recommended in the “ANNUAL WEEDS”, “PERENNIAL WEEDS” and “WOODY BRUSH AND TREES RATE SECTIONS” of this label. Additional information on the control of tough weeds can be found in Fact Sheets published by Monsanto for this product. All labeled treatments may be made by aerial equipment where appropriate, provided that the applicator complies with the precautions and restrictions specified on this product’s labeling.

11.1 Alfalfa, Clover, and Other Forage Legumes

LABELED CROPS: Alfalfa, Clover, Kenaf, Kundu, Lespedeza, Leucaena, Lupin, Sainfoin, Trefoil, Velvet bean, Vetch (all types).

TYPES OF APPLICATIONS: Preplant, At-Planting, Preemergence, Preharvest (except Kenaf and Leucaena), Spot Treatment, Over-the-Top Wiper Application, Renovation, Stand Removal.

Use directions for alfalfa with a glyphosate tolerant gene are in the “ROUNDPUP 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. Applications must be made prior to crop emergence.

PRECAUTIONS, RESTRICTIONS: Remove domestic livestock before application. The crop may be fed or grazed as soon as it reaches sufficient maturity.

Preharvest (Except Kenaf and Leucaena)

USE INSTRUCTIONS: This product may be used in declining alfalfa stands or any stand of alfalfa where crop destruction is acceptable. This product will control annual or perennial weeds, including quackgrass, when applied prior to crop harvest. Applications may be made at any time of the year. For control of quackgrass, apply in the spring, late summer or fall when quackgrass is actively growing. Treatments for quackgrass must be followed by deep tillage for complete control.

PRECAUTIONS, RESTRICTIONS: Make only one application to an existing stand of crop per year. The treated crop and weeds can be harvested and fed to livestock according to the application rates and intervals defined below.

<table>
<thead>
<tr>
<th>Crops Listed</th>
<th>Maximum single Application Rate per acre</th>
<th>Minimum interval between application and harvest or livestock grazing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alfalfa</td>
<td>2 quarts</td>
<td>36 hours</td>
</tr>
<tr>
<td>All other labeled legumes listed</td>
<td>3 pints</td>
<td>3 days</td>
</tr>
</tbody>
</table>

This application may destroy the alfalfa stand and may severely injure or destroy other labeled crops such as clover. Preharvest application is not recommended for alfalfa grown for seed, as a reduction in germination or vigor may result.

Spot Treatment, Over-the-Top Wiper Application

USE INSTRUCTIONS: This product may be applied as a spot treatment or over the top of crops listed in this section with wiper applicators. For wipers, see “Wiper Applicators” in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label. Applications may be made in the same area at 30-day intervals.

PRECAUTIONS, RESTRICTIONS: For spot treatment and wiper applications, apply in areas where the movement of domestic livestock can be controlled. No more than 10 percent of the total field area should be treated at one time. Remove domestic livestock before application and wait 3 days after application before grazing livestock or harvesting.

Renovation, Stand Removal

USE INSTRUCTIONS: This product may be applied as a broadcast spray to remove established stands of alfalfa, clover, and other forage legumes listed on this label. If the crop is to be grazed or harvested for feed, use up to a maximum of 2 quarts per acre in alfalfa and up to 3 pints per acre in other labeled legumes. For complete removal of established stands of clover, it may be necessary to use treatment rates greater than this, as listed in the “PERENNIAL WEEDS RATE SECTION” of this label.

PRECAUTIONS, RESTRICTIONS: For applications up to 2 quarts per acre for alfalfa or 3 pints per acre for other forage legumes, remove domestic livestock before application, and follow the minimum harvest or grazing intervals in the table above under Preharvest in this section. For treatment rates above these levels, do not graze or harvest treated foliage for livestock feed or allow grazing. Crops listed in this label may be planted into the treated area at any time; for all other crops, wait 30 days or more between application and planting.

Postharvest Weed Control in Dormant CRP Grasses, Over-the-Top Wiper Application

USE INSTRUCTIONS: Apply this product to suppress competitive growth and seed production of undesirable vegetation on CRP land. Applications may be made using wiper applicators to control tall weeds or as a broadcast or spot treatment to dormant CRP grasses. For selective applications with broadcast spray equipment, apply 12 to 16 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 applications can be made after desirable perennial grasses have reached dormancy.

PRECAUTIONS, RESTRICTIONS: Some stunting of CRP perennial grasses will occur if broadcast applications are made when plants are not dormant. No waiting period is required between application and grazing or harvesting for feed. Do not apply more than 3 quarts per acre per year onto CRP land.
**11.3 Grass Seed or Sod Production**

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

**TYPES OF APPLICATIONS:** Preplant, Preseeding, Premerger, Renovation, Removal of Established Stands, Site Preparation, Shielded Sprayers, Over-the-Top Wiper Application, Spot Treatment, Creating Rows in Annual Ryegrass.

**Preplant, Preseeding, Premerger, Renovation, Removal of Established Stands, Site Preparation**

**USE INSTRUCTIONS:** This product controls most existing vegetation prior to renovating turf or forage grass seed areas or establishing turf grass grown for sod. It may be used to destroy undesirable grass vegetation when production fields are converted to alternate species or crops. Make applications before, during, or after planting or for renovation. For maximum control of existing vegetation, delay planting to determine if any regrowth from escaped underground plant parts occurs. Where existing vegetation is growing under mowed turf management, apply this product after ommitting at least one regular mowing to allow sufficient growth for good interception of the herbicide spray. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses, such as Bermudagrass, summer or fall applications provide best control. Broadcast equipment may be used to control sod remnants or other unwanted vegetation after sod is harvested. Application rates of up to 5 quarts per acre may be used to totally remove established stands of tough to kill grass species.

**PRECAUTIONS, RESTRICTIONS:** Do not disturb soil or underground plant parts before treatment. Tillage or renovation techniques such as vertical mowing, coring or slicing should be delayed for 7 days after application to allow proper translocation into underground plant parts. If application rates 1 to 1.5 percent per acre or less, no waiting period exists between treatment and feeding or livestock grazing is required. However, the rate is greater than 1.5 percent per acre, no more than 20 days after application prior grazing or harvesting. For any crop not listed for treatment in this label, applications must be made at least 30 days prior to planting. Applications must be made prior to the crop emergence in order to avoid crop injury. 

**Shielded Sprayers**

**USE INSTRUCTIONS:** Apply 1 to 1.5 percent solution of this product as a broadcast spray in 10 to 20 gallons of water per acre to control weeds between grass seed rows. Uniform planting in straight rows aids in shielded sprayer applications. Best results are obtained when the grass seed crop is small enough to easily pass by or through the protective shields. See additional instructions on the use of shielded sprayers in the “APPLICATION EQUIPMENT AND TECHNIQUES” section.

**PRECAUTIONS, RESTRICTIONS:** Droplets, mist, foam or splash of the herbicide solution settling onto desirable vegetation may result in discoloration, stubbling or destruction. Such damage shall be the sole responsibility of the applicator.

**Over-the-Top Wiper Application**

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

**PRECAUTIONS, RESTRICTIONS:** Droplets, mist, foam or splash of the herbicide solution settling onto desirable vegetation may result in discoloration, stubbling or destruction. Such damage shall be the sole responsibility of the applicator.

**Spot Treatment**

**USE INSTRUCTIONS:** Apply a 1- to 1.5-percent solution of this product using hand-held spray equipment to control weeds within established vegetation prior to heading of grasses grown for seed. Hand-held equipment may also be used to control sod remnants or other unwanted vegetation after sod is harvested.

**PRECAUTIONS, RESTRICTIONS:** Apply this product prior to heading of grasses. Do not treat more than 10 percent of the total field area. Crop sprayed in treated area will be killed. Take care not to spray or allow spray to drift outside the target area to avoid unwanted crop destruction. Hand-held equipment may be used to control sod remnants or other unwanted vegetation after sod is harvested.

**Creating Rows in Annual Ryegrass**

**USE INSTRUCTIONS:** Apply 16 to 32 fluid ounces of this product per acre. Best results are obtained when applications are made before ryegrass reaches 6 inches in height. Use the higher rate when the ryegrass is greater than 6 inches in height. Set nozzle heights to allow the establishment of the desired row spacing. Use of low-pressure nozzles, or drop nozzles designed to target the application over a narrow band are recommended.

**PRECAUTIONS, RESTRICTIONS:** Take care not to spray or allow droplets, spray fines, or drift to settle outside the treatment area to avoid unwanted crop destruction. Grower assumes all responsibility for crop losses from misapplication.

**11.4 Pastures**

**LABELED CROPS:** Any grass (Gramineae family) except Corn, Sorghum, Sugarcane and those listed in the “CEREAL AND GRAIN CROPS” section of this label, including Bahiagrass, Bermudagrass, Bluegrass, Bromegrass, Fescue, Kuagrasses, Kikuyu grass, Orchardgrass, Pangola grass, Ryegrass, Timothy, Wheatgrass.

**TYPES OF APPLICATIONS:** Preplant, Premerger, Pasture Renovation, Spot Treatment, Over-the-Top Wiper Application, Postemergence Weed Control (Broadcast Treatments).

**Preplant, Premerger, 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 used to control perennial pasture species listed on this label prior to replanting.

**PRECAUTIONS, RESTRICTIONS:** If application rates total 3 quarts per acre or less, no waiting period between treatment and feeding or livestock grazing is required. If the rate is greater than 3 quarts per acre, remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting. For any crop not listed on this label, applications must be made at least 30 days prior to planting.

**Spot Treatment, Over-the-Top Wiper Application**

**USE INSTRUCTIONS:** This product may be applied in pastures as a spot treatment or over the top of desired grasses using wiper applicators to control tall weeds. Applications may be repeated in the same area at 30-day intervals. See additional instructions on the use of wiper applicators in the “APPLICATION EQUIPMENT AND TECHNIQUES” section.

**PRECAUTIONS, RESTRICTIONS:** For spot treatment and wiper application methods using rates of 3 quarts of this product per acre or less, the entire field being treated must be treated. When spot treatments or wiper applications are made using rates above 3 quarts of this product per acre, no more than 10 percent of the field may be treated at any one time. To achieve maximum performance, remove domestic livestock before application and wait 7 days after application before grazing or harvesting for feed.

**Postemergence Weed Control (Broadcast Treatments)**

**USE INSTRUCTIONS:** This product may be applied to pastures to suppress competitive grass growth and seed production of annual weeds and undesirable vegetation. For selective applications with broadcast spray equipment, apply 1 to 2 fluid ounces of this product per acre in early spring before desirable perennial grasses break dormancy and initiate green growth. Late fall applications can be made after perennial grasses have reached dormancy.

**PRECAUTIONS, RESTRICTIONS:** Some stunting of perennial grasses will occur if broadcast applications are made when plants are not dormant. Use of higher application rates will result in stand reductions. No waiting period is required between application and grazing or harvesting for feed. Do not apply more than 3 quarts per acre per year onto pasture grasses except for renovation use described above in this section. If replanting is needed due to severe stand reduction, wait at least 30 days after treatment prior to planting any crop not listed on this label.

**11.5 Rangelands**

**TYPES OF APPLICATIONS:** Postemergence.

**USE INSTRUCTIONS:** This product will control or suppress many annual weeds growing in perennial cool- and warm-season grass rangelands. Preventing viable seed production is key to the successful control and invasion of annual grassy weeds in rangelands. Follow-up applications in sequential years should eliminate most of the viable seeds. Grazing of treated areas should be delayed to encourage growth of desirable perennials. Allowing desirable perennials to flower and reseed in the treated area will encourage successful transition. Apply 12 to 16 fluid ounces of this product at the 3-leaf stage. Delaying applications beyond this stage will result in reduced or unacceptable control. Fire may be useful in eliminating the thatch layer produced by slow decaying culms prior to application. Allow new growth to occur before spraying after a burn. Repeated applications in subsequent years may be necessary to eliminate the seedbank before reestablishing desirable perennial grasses in medusahead-dominated rangelands.

**PRECAUTIONS, RESTRICTIONS:** Slight discoloration of the desirable grasses may occur, but they will regreen and regrow under moist soil conditions as effects of this product wear off. Do not use ammonium sulfate when spraying rangeland grasses with this product. No waiting period between treatment and feeding or livestock grazing is required. Do not apply more than 3 quarts of this product per acre per year.

**17.0 ROUNDPURP READY CROPS**

The following instructions or those published separately on Monsanto supplemental labeling for this product include all applications of this product that can be made onto the specified Rounp Reddy crops during the complete cropping season. DO NOT combine these treatment instructions with those for crops in the "ANNUAL AND PERENNIAL CROPS (Alphabetical)" section of this label that do not contain a glyphosate tolerant gene, unless otherwise directed in this product’s labeling.

**MONSANTO COMPANY RECOMMENDS USE OF THIS PRODUCT FOR POSTEMERGENCE (IN-CROP) APPLICATION ONLY ON CROPS DESIGNATED AS CONTAINING A Glyphosate TOLERANT GEN. Applying this product to crops that are not designated as Rounp Reddy will result in severe crop injury and yield loss. Avoid contact with foliage, green stems, or fruit of crops, or any desirable plants that do not contain a glyphosate gene.”
It is important that sprayer and mixing equipment be clean and free of pesticide residue before making applications of this product. Follow the cleaning procedures specified on the label of the product(s) previously used. THOROUGHLY CLEAN THE SPRAY TANK AND ALL LINES AND FILTERS TO ELIMINATE POTENTIAL CONTAMINATION FROM OTHER HERBICIDES PRIOR TO MIXING AND APPLYING THIS PRODUCT.

For ground broadcast applications, Apply this product in 5 to 20 gallons of spray solution per acre. Carefully select proper nozzle and spray pressure to avoid spraying a fine mist. For best results with ground application equipment, use flat spray nozzles. Check for even distribution of spray droplets.

For aerial applications, All labeled treatments may be made by aerial equipment where appropriate, provided that the applicator complies with the precautions and restrictions specified on this product’s labeling, in particular in the “AERIAL EQUIPMENT” section. Apply this product in 3 to 15 gallons of water per acre. See the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label for procedures to avoid spray drift that may cause injury to any vegetation not intended for treatment. Use of appropriate buffer zones will help prevent injury to adjacent vegetation.

For proper stewardship of aerial applications over the top of Roundup Ready crops, Monsanto recommends that growers and applicators read and follow all precautions and procedures contained in the use guide “A Guide to On-Target Aerial Application”. Copies of this publication are available by calling 1-800-ROUNDUP (1-800-768-6387).

ATTENTION: AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN A GLYPHOSATE TOLERANT GENE.

TANK MIXTURE: Tank mixtures with other herbicides, insecticides, fungicides, micronicotinoids or foliar fertilizers may result in reduced weed control or crop injury and are NOT recommended for applications of this product over the top of Roundup Ready crops unless otherwise noted in this product label, or in separate supplemental labeling or Fact Sheets published by Monsanto for this product.

Unless otherwise directed, nonionic surfactant may be added to the spray solution for applications to Roundup Ready crops. The addition of certain surfactants to this product may result in some crop response including leaf necrosis, leaf chlorosis or leaf speckling due to the surfactant added to the spray mixture. Read and carefully observe cautionary statements and other information appearing on the surfactant label.

Ammonium sulfate may be mixed with this product for applications to Roundup Ready crops. Refer to the “MIXING” section for instructions on the use of ammonium sulfate.

Ensure that ammonium sulfate is completely dissolved in the spray tank before adding herbicides. Thoroughly rinse the spray system with clean water after use to reduce corrosion.

NOTE: The following instructions are based on a clean start at planting by using a preplant burndown treatment of this product in Roundup Ready crops. For aerial applications, refer to the following table for directions and maximum application rates for in-crop applications to established stands of alfalfa (non-seeding year).

### Annual Maximum Application Rates

<table>
<thead>
<tr>
<th>Application Rate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 quarts per acre</td>
<td>Preplant during year of establishment</td>
</tr>
<tr>
<td>6 quarts per acre</td>
<td>For newly established and established stands</td>
</tr>
</tbody>
</table>

### Precautions

**PRECAUTIONS, RESTRICTIONS:** Where Roundup Ready alfalfa is grown with a companion or cover crop, or is overseeded with a second species, in-crop (over-the-top) applications of this product should not exceed the non-glufosinate tolerant species. Any single in-crop application of this product should not exceed 2 quarts per acre. Sequential applications of this product should be at least 7 days apart. The combined total per year for all in-crop applications in both newly established (seeding year) and established stands (non-seeding year) must not exceed 6 quarts per acre. Remove domestic livestock before application. Wait a minimum of 5 days after application before grazing, cutting and feeding of forage and hay.

### Types of Applications

**TYPE OF APPLICATIONS:** Preplant, At-planting, Preemergence, Postemergence (In-crop).

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

<table>
<thead>
<tr>
<th>Application Rate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 quarts per acre</td>
<td>Preplant, At-planting, Preemergence applications</td>
</tr>
<tr>
<td>1 quart per acre</td>
<td>Total In-crop application from emergence to 6-leaf stage</td>
</tr>
</tbody>
</table>

### General Precautions and Restrictions

**GENERAL PRECAUTIONS AND RESTRICTIONS:** See the “ROUNDUP READY CROPS” section of this label for general precautionary instructions for use of this product in Roundup Ready crops. See the “GENERAL INFORMATION” section of this label for more information on “Annual Maximum Application Rates”.

**Preplant, At-Planting, Preemergence**

**USE INSTRUCTIONS:** This product may be applied before, during or after planting alfalfa with a glyphosate tolerant gene, up to a maximum of 2 quarts per acre.

**Postemergence (In-crop)**

**USE INSTRUCTIONS:** Applications of this product may be made over the top of Roundup Ready alfalfa (in-crop) from emergence to 5 days prior to harvest. To maximize crop yield and quality potential, applications of this product should be made after weeds have emerged but before alfalfa growth or re-growth interferes with spray coverage of the target weeds.

Refer to the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL WEEDS RATE SECTION” in this label for rate recommendations for specific weeds. When applied as directed, this product will control these annual and perennial grasses and broadleaf weeds. In addition to those weeds listed in these sections, this product will suppress the parasitic weed Dodder (Cuscuta spp) in Roundup Ready alfalfa. Repeat applications may be necessary for complete control.

**Stand Establishment—**Due to the biology and breeding constraints of alfalfa, up to 10% of the seedlings may not contain a Roundup Ready gene and will not survive after the first application of this product. To eliminate the undesirable effects of stand gaps created by this loss of plants, a single application of this product per acre should be applied at or before the 4-trifoliate growth stage. Refer to the following tables for maximum in-crop application rates during stand establishment (seeding year).

### Stand Establishment (Seeding Year)

**Application Rates**

<table>
<thead>
<tr>
<th>Amount per Acre</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 2 quarts per acre</td>
<td>From emergence to 4 trifoliate leaves</td>
</tr>
<tr>
<td>Up to 2 quarts per acre</td>
<td>From 5 trifoliate leaves up to 5 days before first cutting</td>
</tr>
<tr>
<td>Up to 2 quarts per acre</td>
<td>After First Cutting</td>
</tr>
<tr>
<td>Up to 2 quarts per acre</td>
<td>In-crop application, per cutting, up to 5 days before cutting</td>
</tr>
</tbody>
</table>

### Established Stands—

Refer to the following table for directions and maximum application rates for in-crop applications to established stands of alfalfa (non-seeding year).

**Application Rates**

<table>
<thead>
<tr>
<th>Amount per Acre</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 2 quarts per acre</td>
<td>In-crop applications, per cutting, up to 5 days before cutting</td>
</tr>
</tbody>
</table>

### 12.2 Roundup Ready Canola (Spring Varieties)

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

**TYPES OF APPLICATIONS:** Preplant, At-planting, Preemergence, Postemergence (In-crop).

**DO NOT USE THIS PRODUCT ON CANOLA WITH A GLYPHOSATE TOLERANT GENE PLANTED IN THE FOLLOWING STATES: ALABAMA, DELAWARE, FLORIDA, GEORGIA, KENTUCKY, MARYLAND, NEW JERSEY, NORTH CAROLINA, SOUTH CAROLINA, TENNESSEE, VIRGINIA AND WEST VIRGINIA, EXCEPT FOR USES IN WILDLIFE FOOD PLOTS THAT WILL NOT BE HARVESTED FOR HUMAN OR LIVESTOCK FOOD.

**Annual Maximum Application Rates**

<table>
<thead>
<tr>
<th>Application Rate</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 quarts per acre</td>
<td>Preplant, At-planting, Preemergence applications</td>
</tr>
</tbody>
</table>

**General Precautions and Restrictions:** See the “ROUNDUP READY CROPS” section of this label for general precautionary instructions for use of this product in Roundup Ready crops. See the “GENERAL INFORMATION” section of this label for more information on “Annual Maximum Application Rates.”
Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting, up to a maximum of 2 quarts per acre.

Postemergence (In-crop)

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

- Single Application — Apply 16 to 24 fluid ounces per acre no later than the 6-leaf stage for the control of annual weeds. Avoid overlapping applications that may result in temporary yellowing, delayed flowering, and or growth reduction. Similar crop injury may result when applications of more than 16 fluid ounces per acre are applied after the 4-leaf stage.

- Sequential Application — Apply 16 fluid ounces per acre to 1- to 3-leaf canola following by a sequential application at a minimum interval of 10 days, but no later than the 6-leaf stage. Sequential applications are recommended for early emerging annual weeds and perennial weeds such as Canada thistle and quackgrass, or when multiple application times are needed for adequate weed control.

PRECAUTIONS, RESTRICTIONS: No more than two in-crop broadcast applications may be made from crop emergence through the 6-leaf stage of development and the total in-crop application should not exceed 32 fluid ounces per acre. Allow a minimum of 60 days between last application and canola harvest.

12.3 Corn Hybrids with Roundup Ready 2 Technology

Corn hybrids with Roundup Ready 2 Technology include Roundup Ready Corn 2 and products displaying the Roundup Ready 2 Technology logo.

- TYPES OF APPLICATIONS: Preplant, At-Planting, Preemergence, Postemergence (In-crop), Spot Treatment, Preharvest, Post-Harvest.

<table>
<thead>
<tr>
<th>Annual Maximum Application Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined total per year for all applications 8 quarts per acre</td>
</tr>
<tr>
<td>Preplant, At-Planting, Preemergence applications 5 quarts per acre</td>
</tr>
<tr>
<td>Total In-crop applications from emergence through 48 inches 3 quarts per acre</td>
</tr>
<tr>
<td>Maximum Preharvest application (See PRECAUTIONS, RESTRICTIONS section for Preharvest) 1 quart per acre</td>
</tr>
</tbody>
</table>

GENERAL PRECAUTIONS, RESTRICTIONS: See the “ROUNDUP READY CROPS” section of this label for general precautionary instructions for use of this product in Roundup Ready crops. See the “GENERAL INFORMATION” section of this label for more information on “Annual Maximum Application Rates”. The use of the in-crop (over-the-top) rates described in these instructions on corn other than with corn with Roundup Ready 2 Technology, including Roundup Ready Corn 2 and products displaying the Roundup Ready 2 Technology logo, may cause crop injury and reduced yields. Refer to individual tank mixture product label for restrictions and precautions; use according to the most restrictive precautionary statements for each product in the tank mixture.

Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied alone or in a tank-mixture before, during or after planting.

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

- Bullet, Micro-Tech, alachlor, Degree, Degree XTRA, Harness, Harness Xtra, Harness Xtra 5.6L, acetochlor, 2,4-D, Aim EC, atrazine, Banvel, Basis, Basis Gold, Bullet, Clarity, Dictinct, Equip, Hornet, Marksman, Option, Resolve, Resource

Tank Mix Partner Maximum Height Of Corn For Application

| Degree |
| Degree Xtra |
| Harness |
| Harness Xtra |
| Harness Xtra 5.6L |
| Bullet* |
| Micro-Tech* |
| Atrazine |

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

The addition of 1 to 2 percent dry ammonium sulfate by weight or 8.5 to 17 pounds per 100 gallons of water may increase the performance of this product under hard water conditions, drought conditions or when tank mixed with Bullet or Micro-Tech herbicides.

PRECAUTIONS, RESTRICTIONS: Single in-crop applications of this product should not exceed 3 pints per acre. Sequential in-crop applications of this product from emergence through 48 inches in height must not exceed a total of 3 quarts per acre per growing season. Allow a minimum of 10 days between in-crop applications of this product. Allow a minimum of 50 days between application of this product in-crop and harvest of corn forage or grain. (For applications at preharvest timing, see PREHarvest section following.) The use of additional surfactants and other additives, including fertilizers and micro-nutrients, in the spray solution are not recommended with this product and may result in increased potential for crop injury or reduced yield, and is not recommended for over-the-top applications, unless otherwise directed in supplemental labeling or Fact Sheets published separately by Monsanto.

Preharvest USE INSTRUCTIONS: A single preharvest application of up to 32 fluid ounces per acre of this product may be applied for annual and perennial weed control prior to crop harvest. Make application at 35 percent grain moisture or less. Ensure that maximum kernel fill is complete and the corn is physiologically mature (black layer formed).

PRECAUTIONS, RESTRICTIONS: Do not make a preharvest application of this product if more than a combined total of 64 fluid ounces of this product has been previously applied in over-the-top or drop nozzle applications. Allow a minimum of 7 days between a preharvest application and harvest or feeding of corn stover or grain.

Post-Harvest USE INSTRUCTIONS: This product may be applied for weed control after corn harvest. Higher rates may be required for control of large weeds that were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation.

12.4 Roundup Ready Cotton

TYPES OF APPLICATIONS: Preplant, Preemergence, At-Planting, Postemergence (In-crop), selective application (In-crop), Preharvest.

Annual Maximum Application Rates

| Combined total per year for all applications 8 quarts per acre |
| Preplant, At-Planting, Preemergence applications 5 quarts per acre |
| Total In-crop applications from ground cracking to layby 4 quarts per acre |
| Maximum Preharvest application rate 2 quarts per acre |
| Combined total In-crop application from emergence through harvest 6 quarts per acre |

GENERAL PRECAUTIONS, RESTRICTIONS: See the “ROUNDUP READY CROPS” section of this label for general precautionary instructions for use of this product in Roundup Ready crops. See the “GENERAL INFORMATION” section of this label for more information on “Annual Maximum Application Rates”. ALLOW A MINIMUM OF 7 DAYS BETWEEN APPLICATION AND HARVEST.
Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting. Tank mixtures with other herbicides listed in Section 9.3 of this label may be used.

TANK MIXTURES: This product may be tank-mixed with 2,4-D and 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 specific product being used in the tank mixture is registered for application prior to the emergence of cotton. Read and follow label directions of all products in the tank mixture.

PRECAUTIONS, RESTRICTIONS: The maximum quantity of this product that may be applied for all preplant, at-planting and preemergence applications combined is 5 quarts per acre per season.

Postemergence (in-crop)

USE INSTRUCTIONS: This product may be applied over the top of Roundup Ready cotton at rates up to 1 quart per acre per application from the ground cracking stage until the 4-leaf (node) stage of development (until the fifth true leaf reaches the size of a quarter). Applications made after the 4-leaf (node) stage of development may result in boll loss, delayed maturity and/or yield loss.

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

Assure II, Dual MAGNUM, Fusilade, Poast Plus, Select, Staple, metolachlor

Staple may cause leaf yellowing and/or leaf crinkling when applied postemergence (in-crop).

Dual MAGNUM applied over the top of Roundup Ready cotton may cause leaf injury in the form of necrotic spotting to exposed cotton leaves.

PRECAUTIONS, RESTRICTIONS: The maximum quantity of this product that may be applied for all in-crop applications from ground-cracking to layby combined is 4 quarts per acre per season. No more than two over-the-top broadcast applications may be made from crop emergence through the 4-leaf (node) stage of development. No more than two applications should be made from the 5-leaf stage through layby. Sequential over-the-top or post-directed applications of this product in-crop must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications. 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 applications to Roundup Ready cotton.

Salvage Treatment. This treatment may be used after the 4-leaf stage of development and should only be used where weeds threaten to cause the loss of the crop. One quart per acre may be applied either as an over-the-top application or as a post-directed treatment sprayed higher on the cotton plants and over the weeds. Note: SALVAGE TREATMENTS WILL RESULT IN SIGNIFICANT BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS. NO MORE THAN ONE SALVAGE TREATMENT SHOULD BE USED PER GROWING SEASON.

Selective Equipment (in-crop)

USE INSTRUCTIONS: This product may be applied using precision post-directed or hooded sprayers at rates up to 1 quart per acre per application to Roundup Ready cotton through layby. At this stage, use post-directed equipment to direct the spray to the base of the cotton plants. Avoid contact of the herbicide spray with the cotton leaves to the maximum extent possible. To minimize spray contact maintain low spray pressure (less than 30 pounds per square inch) and place nozzles in a low position, directing a horizontal spray pattern under the cotton leaves and onto weeds in the row. For best results, make applications while weeds are small (less than 3 inches). See additional instructions on the use of selective equipment in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

TANK MIXTURES: This product can be tank-mixed with the following products for in-crop application using precision post-directed or hooded sprayers. Ensure that the specific product being used in the tank mixture is registered for application postemergence (in-crop) to cotton. Read and follow label directions of all products in the tank mixture.

Aim, Caparol, Chateau, Direx, Evoke, Layby-PRO, pendimethalin, Staple, Valor

Staple may cause leaf yellowing and/or leaf crinkling when applied postemergence (in-crop).

PRECAUTIONS, RESTRICTIONS: The maximum quantity of this product that may be applied for all in-crop applications from ground-cracking to layby combined is 4 quarts per acre per season. Sequential over-the-top or post-directed applications of this product in-crop must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications.

Preharvest

USE INSTRUCTIONS: This product may be applied for annual and perennial weed control as a broadcast treatment prior to crop harvest after 20 percent boll crack. Apply up to 2 quarts of this product per acre. NOTE: This product will not enhance the performance of harvest aids when applied to Roundup Ready cotton.

PRECAUTIONS, RESTRICTIONS: Allow a minimum of 7 days between application and harvest of cotton. Preharvest application is not recommended for cotton grown for seed, as a reduction in germination or vigor may occur.

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 conformance with the label specifications. In some cases, these factors can result in boll loss, delayed maturity and/or yield loss.

12.5 Roundup Ready Soybeans

TYPES OF APPLICATIONS: Preplant, Preemergence, At-Planting, Postemergence (in-crop), Preharvest, Post-Harvest.

<table>
<thead>
<tr>
<th>Annual Maximum Application Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined total per year for all applications</td>
</tr>
<tr>
<td>Preplant, At-Planting, Preemergence applications</td>
</tr>
<tr>
<td>Total In-crop applications from flowering (R2 stage soybeans)</td>
</tr>
<tr>
<td>Maximum Preharvest application rate</td>
</tr>
</tbody>
</table>

GENERAL PRECAUTIONS/RESTRICTIONS: See the “ROUNDUP READY CROPS” section of this label for general precautionary instructions for use in Roundup Ready crops. See the “GENERAL INFORMATION” section of this label for more information on “Annual Maximum Application Rates”. Refer to individual tank mixture product label for restrictions and precautions; use according to the most restrictive precautionary statements for each product in the tank mixture.

Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting. 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 specific product being used in the tank mixture is registered for application prior to emergence of soybeans. Read and follow label directions of all products in the tank mixture.

Aim, Assure II, Axion, Blanket, Boundary, Canopy, Classic, Cobra, Command, Command Xtra, Domain, Dual MAGNUM, Dual II MAGNUM, FirstRate, Flexstar, Frontier, Fusion, Gangster, Gauntlet, INTRVO, Lexone, Linex, Lorsa, Micro-Tech, Outlook, Pendimax, pendimethalin, Pursuit, Pursuit Plus, Python, Reflex, Resourse, Scepter, Select, Select MAX, Sencor, Spartan, Squardon, Steel, Treflan, Valor, 2,4-D

Postemergence (in-crop)

USE INSTRUCTIONS: This product may be used to control annual grasses and broadleaf weeds listed on this label in Roundup Ready soybeans. Applications of this product can be made from emergence (cracking) through flowering (R2 stage soybeans). R2 stage soybeans ends when a pod reaches 5 millimeters (0.2 inches) in length at one of the four uppermost nodes on the main stem with a fully developed leaf. Refer to the “ANNUAL WEEDS RATE SECTION” in this label for recommended modifications for specific annual weeds. In general, an initial application of 1 quart per acre on 2- to 8-inch tall weeds is recommended. Weeds will generally be 2 to 8 inches tall, 2 to 5 weeks after planting. If the initial application is delayed and weeds are larger, apply a higher rate of this product. This product may be used up to 2 quarts per acre in any single in-crop application for control of annual weeds and where dense weed populations exist. A 1- to 2-quarts per acre rate (single or multiple applications) of this product will control or suppress perennial weeds such as: Bermudagrass, Canada thistle, common milkweed, field bindweed, hemp dogbane, horseradish, marestail (horseweed), nutsedge, quackgrass, rhizome johnsongrass, redvine, trumpet creeper, swamp smartweed and wistem mulch. For best results, allow perennial weed species to achieve at least 6 inches of growth before spraying with this product. Under adverse growing conditions such as drought, hail, wind damage or a poor soybean stand that slows or delays canopy closure, a sequential application of this product may be necessary to control late flushes of weeds. IN THE SOUTHERN STATES, A SEQUENTIAL APPLICATION OF THIS PRODUCT WILL BE REQUIRED TO CONTROL NEW FLUSHES OF WEEDS IN THE ROUNDUP READY SOYBEAN CROP. To control giant ragweed, it is recommended that 1 quart per acre of this product be applied when the weed is 8 to 12 inches tall to increase control and possibly avoid the need for a sequential application.

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

Arrow, Assure II, Basagran, Classic, Cobra, Extreme, FirstRate, Flexstar, Fusilade EX, Fusion, Harmony GT XP, Poast, Poast Plus, Pursuit, Pursuit Plus, Raptor, Reflex, Select, Select MAX, Synchrony STS, Targa, Ultra Blazer

PRECAUTIONS, RESTRICTIONS: The combined total application from crop emergence through harvest must not exceed 3 quarts per acre. The maximum rate for any single in-crop application of this product is 2 quarts per acre. The maximum combined total of this product that can be applied during flowering is 2 quarts per acre.

Preharvest

USE INSTRUCTIONS: This product may be applied for weed control prior to harvest of soybeans when pods have set and lost all green color. Up to 1 quart per acre of this product can be applied by aerial or ground application.
PRECAUTIONS, RESTRICTIONS: Care should be taken to avoid excessive seed shatter loss due to ground application equipment. Allow a minimum of 14 days between final application and harvest of soybean grain or feeding of soybean grain, forage or hay.

Post-Harvest

USE INSTRUCTIONS: This product may be applied after harvest of Roundup Ready soybeans. Higher rates may be required for control of large weeds that were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used.

12.6 Roundup Ready Sugar Beet

TYPES OF APPLICATIONS: Preplant, At-Planting, Preemergence, Postemergence (In-crop).

<table>
<thead>
<tr>
<th>Maximum Annual Application Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined total per year for all applications</td>
</tr>
<tr>
<td>Preplant, At-Planting, Preemergence applications</td>
</tr>
<tr>
<td>Emergence to 8-leaf stage</td>
</tr>
<tr>
<td>Between 8-leaf stage and canopy closure</td>
</tr>
</tbody>
</table>

GENERAL PRECAUTIONS, RESTRICTIONS: See the “ROUNDUP READY CROPS” section of this label for general precautionary instructions for use in Roundup Ready crops. See the “GENERAL INFORMATION” section of this label for more information on “Annual Maximum Application Rates”.

Preplant, At-Planting, Preemergence

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

Postemergence (In-crop)

USE INSTRUCTIONS: This product may be applied over the top of Roundup Ready sugar beets for control of annual grasses and broadleaf weeds from emergence to 30 days prior to harvest. To maximize yield potential, spray sugar beets early to eliminate competing weeds. Up to 4 sequential applications of this product may be made with at least 10 days between applications. Refer to the “ANNUAL WEEDS RATE SECTION” in this label for rate recommendations for specific annual weeds. This product will control and suppress most perennial weeds. For some perennial weeds, repeat applications may be required to eliminate crop competition throughout the growing season.

PRECAUTIONS, RESTRICTIONS: The combined total application from crop emergence through harvest must not exceed 4.5 quarts per acre. The maximum rate for any single application from crop emergence until the 8-leaf stage is 1.5 quarts per acre. The maximum rate for any single application between the 8-leaf stage and canopy closure is 1 quart per acre. Allow a minimum of 30 days between last application and sugar beet harvest.

13.0 NON-CROP USES: FARMSTAND, INDUSTRIAL, TURF AND ORNAMENTAL SITES

Unless otherwise specified, applications may be made to control any weeds listed in the “ANNUAL WEEDS”, “PERENNIAL WEEDS”, and “WOODY BRUSH AND TREES RATE SECTIONS” of this label. Refer to the “APPLICATION EQUIPMENT AND TECHNIQUES” section for detailed instructions on different application methods.

13.1 Cut Stump

TYPES OF APPLICATIONS: Treating cut stumps in any non-crop site listed on this label.

USE INSTRUCTIONS: This product will control regrowth of cut stumps and resprouts of many types of woody brush and tree species, some of which are listed below. Apply this product using suitable equipment to ensure coverage of the entire cambium. Cut trees and resprouts close to the soil surface. Apply a 50 to 100 percent solution of this product to the freshly cut surface immediately after cutting. Delays in application may result in reduced performance. For best results, applications should be made during periods of active growth and full leaf expansion.

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

PRECAUTIONS, RESTRICTIONS: Do not make cut stump applications when the roots of desirable woody brush or trees may be grafted to the roots of the cut stump. Some sprouts, stems, or trees may share the same root system. Adjacent trees having a similar age, height and spacing may signal shared roots. Whether grafted or shared, injury is likely to occur to non-treated stems/trees when one or more trees sharing common roots are treated.

13.2 Habitat Management

TYPES OF APPLICATIONS: 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. Applications can be made to allow recovery of native plant species, prior to planting desirable native species, and for similar broad-spectrum vegetation control requirements in habitat management areas. Spot treatments can be made to selectively remove unwanted plants for habitat maintenance and enhancement.

Wildlife Food Plots

USE INSTRUCTIONS: This product may be used as a site preparation treatment to control annual and perennial weeds prior to planting wildlife food plots. Any wildlife food species, including Roundup Ready canola, 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 7 days after application before tillage. For specific product instructions for Roundup Ready canola wildlife food plots, see the “ROUNDUP READY CANOLA” section of this label.

PRECAUTIONS, RESTRICTIONS: Do not process treated Roundup Ready canola seeds from Roundup Ready canola wildlife food plots for food. Do not graze or feed treated Roundup Ready canola from wildlife food plots to livestock. There are no rotational restrictions for planting any wildlife food species or for allowing native species to repopulate the area following applications of this product.

13.3 General Non-crop Areas and Industrial Sites

TYPES OF APPLICATIONS: General Weed Control, Trim-and-Edge, Bare Ground, Chemical Mowing, Dormant Turfgrass, Actively Growing Bermudagrass.

USE INSTRUCTIONS: This product may be used in general non-crop areas. It may be applied with any application equipment described in this label. This product may be used to trim-and-edge around objects in non-crop areas, for spot treatment of unwanted vegetation and to eliminate unwanted weeds growing in established shrub beds or ornamental plantings. This product may be used prior to planting an area to ornamentals, flowers, turfgrass (seed or sod), or prior to laying asphalt or beginning construction projects.

Repeated applications of this product may be used, as weeds emerge, to maintain bare ground.

TANK MIXTURES: This product may be tank mixed with the following products, provided that the specific product is registered for use on such non-crop sites. Refer to these products’ labels for approved non-crop sites and application rates.

- 2,4-D
- Arsenal
- atrazine
- Barricade 65WG
- Clarity
- Crossbow L
- dicamba
- diuron
- Endurance
- Escort
- Gallery 75 DF
- Garlon 4
- Garlon 3A
- Clarity Milestone
- Karmex DF
- Kover 1 LF
- Landmark II MP
- Oust
- Oust XP
- Outriders®
- Pendulum WDG
- Penndimethalin
- Plateau
- Princep DF
- Ronstar 50WP
- Sahara
- Simazine
- Surfian AS
- Surfian WDG
- Tefl
- Trandline
- Vanquish
- Velpar DF
- Velpar L

This product plus dicamba tank mixtures may not be applied by air in California.

When applied as a tank mixture for bare ground, this product provides control of the emerged annual weeds and control or partial control of emerged perennial weeds, woody brush and trees.

For control or partial control of the following perennial weeds, apply 1 to 2 quarts of this product plus 2 to 4 ounces of Oust or Oust XP per acre.

- Bahiagrass
- Bermudagrass
- Broomseed
- Dallisgrass
- Dock, curly
- Dogfennel
- Fescue, tall
- Johnsongrass
- Poojise
- Quackgrass
- Vasegrass
- Vervain, blue

Chemical Mowing - Perennials

USE INSTRUCTIONS: This product will suppress perennial grasses listed in this section to serve as a substitute for mowing. Use 8 fluid ounces of this product per acre when treating tall fescue, fine fescue, orchardgrass, quackgrass or reed canarygrass covers. Use 6 fluid ounces of this product per acre when treating Kentucky bluegrass. Apply treatments in 10 to 40 gallons of spray solution per acre.
**Use only in areas where some temporary injury or discoloration of perennial grasses can be tolerated.**

**Chemical Mowing - Annuals**

**USE INSTRUCTIONS:** For growth suppression of some annual grasses, such as annual ryegrass, wild barley and wild oats growing in coarse turf on roadsides or other industrial areas, apply 4 to 5 fluid ounces of this product in 10 to 40 gallons of spray solution per acre. Applications should be made when annual grasses are actively growing and before the seedheads are in the boot stage of development.

**PRECAUTIONS, RESTRICTIONS:** Treatments may cause injury to the desired grasses.

**Dormant Turfgrass**

**USE INSTRUCTIONS:** This product may be used to control or suppress many winter annual weeds and tall fescue for effective release of dormant Bermudagrass and bahiagrass turf. Treat only when turf is dormant and prior to spring greenup. Apply 8 to 64 fluid ounces of this product per acre. Apply the recommended rates in 10 to 40 gallons of water per acre. Use only in areas where Bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated.

**PRECAUTIONS, RESTRICTIONS:** Treatments in excess of 16 fluid ounces per acre may result in injury or delayed greenup in highly maintained areas, such as golf courses and lawns. DO NOT apply tank mixtures of this product plus Oust in highly maintained turfgrass areas. For further uses, refer to the “ROADSIDES” section of this label, which gives rates for dormant Bermudagrass and bahiagrass treatments.

**Active Growing Bermudagrass**

This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing Bermudagrass. For further uses, refer to the “ROADSIDES” section of this label, which gives rates for actively growing Bermudagrass treatments.

**PRECAUTIONS, RESTRICTIONS:** DO NOT apply more than 16 fluid ounces of this product per acre in highly maintained turfgrass areas. DO NOT apply tank mixtures of this product plus Oust or Oust XP in highly maintained turfgrass areas. Use only in areas where some temporary injury or discoloration can be tolerated.

### 13.4 Injection and Frill (Woody Brush and Trees)

**USE INSTRUCTIONS:** This product may be used to control woody brush and trees by injection or frill applications. Apply this product using suitable equipment that must penetrate into the living tissue. Apply the equivalent of 0.04 fluid ounce (1 milliliter) of this product per each 2 to 3 inches of trunk diameter at breast height (DBH). This is best achieved by applying a 50- to 100-percent concentration of this product either to a continuous frill around the tree or as cuts evenly spaced around the tree below all branches. As tree diameter increases in size, better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings. Avoid application techniques that allow runoff to occur from frilled or cut areas in species that exude sap freely. In species such as this, make the frill or cuts at an oblique angle to produce a cupping effect and use a 100-percent concentration of this product. For best results, application should be made during periods of active growth and after full leaf expansion.

This product will control many species, some of which are listed below:

- **Control**
  - Oak: Partial Control
  - Poplar: Dogwood
  - Sweetgum: Hickory
  - Sycamore: Maple, red

### 13.5 Non-food Tree, Shrub, or Vine Production Sites

This product may be used for general weed control prior to planting or around established ornamentals, or any woody tree, shrub, or vine species, including arborvitaes, azalea, boxwood, crabapple, eucalyptus, euonymus, fir, Douglas fir, jujoba, hollies, lilac, magnolia, maple, oak, poplar, privet, pine, spruce or yew, in any production site.

**PRECAUTIONS, RESTRICTIONS:** UNLESS OTHERWISE DIRECTED, THIS PRODUCT IS NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN ORNAMENTALS AND CHRISTMAS TREES. Care must be taken to avoid contact of spray, drift or mist with foliage or green bark of desirable species.

This product may be used to control weeds growing in and around greenhouses and shadehouses. Desirable vegetation must not be present during application and air circulation fans must be turned off.

**TYPES OF APPLICATIONS:** Site Preparation, Post-directed, Trim-and-edge, Wiper Application.

**Site Preparation**

This product may be used prior to planting any tree, shrub, or vine in an ornamental, nursery, or production setting, including Christmas tree species.

**Post-Directed, Trim-and-Edge**

This product may be used as a post-directed spray around established woody species, or to trim and edge around trees, buildings, sidewalks and roads, potted plants and other objects in a production setting. Desirable plants may be protected from the spray solution by using shields or coverings made of cardboard or other impermeable material.

### 13.6 Railroads

**Wiper Application**

This product may be used through wick or other suitable wiper applicators to control or partially control undesirable vegetation around established trees, shrubs, or vines. See the “SELECTIVE EQUIPMENT” section of this label for further information about the proper use of wiper applicators.

**13.6 Railroads**

All of the methods of application described in the “GENERAL NON-CROP AREAS AND INDUSTRIAL SITES” section may be utilized along railroads.

**TYPES OF APPLICATIONS:** Bare Ground, Ballast and Shoulders, Crossings, Spot Treatment, Brush Control, Bermudagrass Release.

**Bare Ground, Ballast and Shoulders, Crossings, Spot Treatment**

This product may be used to maintain bare ground on railroad ballast and shoulders. Repeat applications of this product may be used, as weeds emerge, to maintain bare ground. This product may be used to control tall-growing weeds to improve line-of-sight at railroad crossings and reduce the need for mowing along rights-of-way. For crossing applications, up to 80 gallons of spray solution per acre may be used.

**TANK MIXTURES:** This product may be tank mixed with the following products for ballast, shoulder, spot, bare ground and crossings treatments, provided that the specific product is registered for use on such non-crop sites:

- **Arsenal**
- **Atrazine**
- **Dicamba**
- **Diuron**
- **Escort**
- **Escort XP**
- **Garlon 3A**
- **Garlon 4**
- **Hyvar X**
- **Hyvar X-L**
- **Krovaf 1 DF**
- **Oust XP**
- **Outlinder**
- **Sahara DG**
- **Spive 80 DF**
- **Telar DF**
- **Transline**
- **Vanquish**
- **Welpar DF**
- **Welpar L**
- **Z-4-D**

**Brush Control**

**USE INSTRUCTIONS:** This product may be used to control woody brush and trees on railroad rights-of-way. Apply 4 to 10 quarts of this product per acre as a broadcast spray, using boom-type or boomless nozzles. Up to 80 gallons of spray solution per acre may be used. Apply a 0.75- to 2-percent solution of this product when using high-volume spray-to-wet applications. Apply a 5- to 10-percent solution of this product when using low-volume directed sprays for spot treatment.

**TANK MIXTURES:** This product may be mixed with the products listed above in this section for enhanced control of woody brush and trees along railroads, provided that the specific product is registered for use on such non-crop sites.

**Bermudagrass Release**

**USE INSTRUCTIONS:** This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing Bermudagrass. Apply 1 to 3 pints of this product in up to 80 gallons of spray solution per acre. Use the lower rate when treating annual weeds below 6 inches in height (or runner length). Use the higher rate as weeds increase in size or as they approach flower or seedhead formation. These rates will also provide partial control of the following perennial species:

- **Bahiagrass**
- **Bluestem, silver**
- **Fescue, tall**
- **Johnsongrass**
- **Trumpetcreepers**
- **Vasgrass**

**TANK MIXTURES:** This product may be tank-mixed with Oust or Oust XP. If tank-mixed, use no more than 1 to 3 pints of this product with 1 to 2 ounces of Oust or Oust XP per acre. Use the lower rates of each product to control annual weeds less than 6 inches in height (or runner length) that are listed in this label and the Oust or Oust XP label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages. These rates will also provide partial control of the following perennial weeds:

- **Bahiagrass**
- **Blackberry**
- **Bluestem, silver**
- **Broomsedge**
- **Dallisgrass**
- **Dock, curly**
- **Dogfennel**
- **Fescue, tall**
- **Johnsongrass**
- **Porpor**
- **Raspberry**
- **Trumpetcreepers**
- **Vasgrass**
- **Vervain, blue**

**PRECAUTIONS, RESTRICTIONS:** Use only on well-established Bermudagrass. Bermudagrass injury may result from the treatment, but regrowth will occur under moist conditions. Repeat applications in the same season are not recommended, since severe injury may occur.

### 13.7 Roadside

All of the methods of application described in the “GENERAL NON-CROP AREAS AND INDUSTRIAL SITES” section may be utilized along roadides.
TYPES OF APPLICATIONS: Shoulder Treatments, Guardrails, Other Obstacles to Mowing, Spot Treatment, Release of Bermudagrass or Bahiagrass.

Shoulder Treatments
This product may be used on road shoulders. It may be applied with boom sprayers, shielded boom sprayers, high-volume off-center nozzles, hand-held equipment, and similar equipment.

Guardrails, Other Obstacles to Mowing
This product may be used to control weeds growing under guardrails and around signposts and other objects along the roadside.

Spot Treatment
This product may be used as a spot treatment to control unwanted vegetation growing along roadsides.

TANK MIXTURES: This product may be tank-mixed with the following products for shoulder, guardrail, spot and bare ground treatments:
- atrazine
- Clarity
- Crossbow L
- dicamba
- diuron
- Endurance
- Escort
- Escort XP
- Gallery 75G
- Kerovar 1 DF
- Landmark II MP
- Landmark MP
- Landmark XP
- Oust

See the “MIXING” section of this label for general instructions for tank mixing.

Release of Bermudagrass or Bahiagrass

Dormant Applications

USE INSTRUCTIONS: This product may be used to control or partially control many winter annual weeds and tall fescue for effective release of dormant Bermudagrass or bahiagrass. Treat only when turf is dormant and prior to spring greenup.

For best results on winter annuals, treat when plants are in an early growth stage (below 6 inches in height) after most have germinated. For best results on tall fescue, treat when they are small.

For weeds that have been mowed, grazed or cut, allow regrowth to occur prior to treatment.

Apply 1 to 3 pints of this product in 10 to 40 gallons of water per acre. Use the lower rates when treating annual weeds below 6 inches in height (or runner length). Use the higher rates when treating annual weeds 6 to 12 inches in height (or runner length) that are listed in this label and the Oust or Oust XP label. Use the higher rates of each product to control annual weeds less than 6 inches in height (or runner length) that are listed in this label and the Oust or Oust XP label. Use the higher rates of both products for control of perennial weeds or annual weeds greater than 6 inches in height. Use only on well-established bahiagrass.

A tank mixture of this product plus Oust or Oust XP may be used. Apply 6 fluid ounces of this product plus 0.25 ounce of Oust or Oust XP per acre 1 to 2 weeks following an initial spring mowing. Make only one application per year.

Efficacy

Actively Growing Bermudagrass

USE INSTRUCTIONS: This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing Bermudagrass. Apply 1 to 3 pints of this product in 10 to 40 gallons of water per acre. Use the lower rates when treating annual weeds below 6 inches in height (or runner length). Use the higher rates when treating annual weeds 6 to 12 inches in height (or runner length) that are listed in this label and the Oust or Oust XP label. Use the higher rates of both products for control of perennial weeds or annual weeds greater than 6 inches in height.

For use with hand-held equipment, use volumes between 2 to 10 gallons per acre. For aerial applications, use volumes between 2 to 14 gallons per acre. For suppression up to 120 days, apply 4 fluid ounces of this product per acre, followed by an application of 2 to 4 fluid ounces per acre about 45 days later. Make no more than 2 applications per year.

For weeds that have been mowed, grazed or cut, allow regrowth to occur prior to treatment. This product may be used up to 64 fluid ounces per acre where heavy weed densities exist.

ANNUAL WEEDS RATE TABLE (Alphabetically by Species)

<table>
<thead>
<tr>
<th>WEED SPECIES</th>
<th>RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(fluid ounces per acre)</td>
</tr>
<tr>
<td></td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Maximum size (in inches)</td>
</tr>
<tr>
<td>Ammamia, purple</td>
<td>3</td>
</tr>
<tr>
<td>Anoda, spurred</td>
<td>–</td>
</tr>
<tr>
<td>Barley</td>
<td>18</td>
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<tr>
<td>Barnyardgrass</td>
<td>–</td>
</tr>
<tr>
<td>Bassia, livelook</td>
<td>–</td>
</tr>
<tr>
<td>Beggartweed, Florida</td>
<td>–</td>
</tr>
<tr>
<td>Bittercress</td>
<td>12</td>
</tr>
<tr>
<td>Bluegrass, annual</td>
<td>10</td>
</tr>
<tr>
<td>Bluegrass, bulbous</td>
<td>6</td>
</tr>
<tr>
<td>Brome, downy</td>
<td>6</td>
</tr>
<tr>
<td>Brome, Japanese</td>
<td>6</td>
</tr>
<tr>
<td>Browntop panicum</td>
<td>6</td>
</tr>
<tr>
<td>Buckwheat, wild</td>
<td>–</td>
</tr>
<tr>
<td>Burdock</td>
<td>–</td>
</tr>
<tr>
<td>Buttercup</td>
<td>12</td>
</tr>
<tr>
<td>Carolina geranium</td>
<td>–</td>
</tr>
<tr>
<td>Carpetweed</td>
<td>–</td>
</tr>
</tbody>
</table>

DORMANT APPLICATIONS

- This product may be used to control or partially control many winter annual weeds and tall fescue for effective release of dormant Bermudagrass or bahiagrass. Treat only when turf is dormant and prior to spring greenup.
- Apply 1 to 3 pints of this product in 10 to 40 gallons of water per acre. Use the lower rates when treating annual weeds below 6 inches in height (or runner length). Use the higher rates when treating annual weeds 6 to 12 inches in height (or runner length) that are listed in this label and the Oust or Oust XP label. Use the higher rates of both products for control of perennial weeds or annual weeds greater than 6 inches in height.
- For use with hand-held equipment, use volumes between 2 to 10 gallons per acre. For aerial applications, use volumes between 2 to 14 gallons per acre. For suppression up to 120 days, apply 4 fluid ounces of this product per acre, followed by an application of 2 to 4 fluid ounces per acre about 45 days later. Make no more than 2 applications per year.
- For weeds that have been mowed, grazed or cut, allow regrowth to occur prior to treatment.
- This product may be used up to 64 fluid ounces per acre where heavy weed densities exist.

ANNUAL WEEDS RATE TABLE

- Actively Growing Bermudagrass
- Dormant Applications
- Shoulder Treatments
- Guardrails, Other Obstacles to Mowing
- Spot Treatment
- TANK MIXTURES: This product may be tank-mixed with the following products for shoulder, guardrail, spot and bare ground treatments:
  - atrazine
  - Clarity
  - Crossbow L
  - dicamba
  - diuron
  - Endurance
  - Escort
  - Escort XP
  - Gallery 75G
  - Kerovar 1 DF
  - Landmark II MP
  - Landmark MP
  - Landmark XP
  - Oust

See the “MIXING” section of this label for general instructions for tank mixing.
<table>
<thead>
<tr>
<th>WEED SPECIES</th>
<th>RATE (fluid ounces per acre)</th>
<th>16</th>
<th>24</th>
<th>32</th>
<th>40</th>
<th>48</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>Maximum size (in inches)</td>
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<tr>
<td></td>
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<td>Cheat</td>
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<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cher vil</td>
<td>20</td>
<td>–</td>
<td>–</td>
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<td></td>
<td></td>
<td>Chickweed</td>
<td>12</td>
<td>18</td>
<td>–</td>
<td>–</td>
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<td></td>
<td></td>
<td>Cocklebur</td>
<td>12</td>
<td>18</td>
<td>24</td>
<td>–</td>
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<td></td>
<td></td>
<td>Copperleaf, hophornbeam</td>
<td>2</td>
<td>4</td>
<td>6</td>
<td></td>
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<td></td>
<td>Copperleaf, Virginia</td>
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<td>4</td>
<td>–</td>
<td>6</td>
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<td>18</td>
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<td></td>
<td>Corn, volunteer</td>
<td>6</td>
<td>12</td>
<td>20</td>
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<tr>
<td></td>
<td></td>
<td>Corn speedwell</td>
<td>12</td>
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<td></td>
<td></td>
<td>Crabgrass</td>
<td>3</td>
<td>6</td>
<td>12</td>
<td>–</td>
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<tr>
<td></td>
<td></td>
<td>Crowfootgrass</td>
<td>–</td>
<td>–</td>
<td>6</td>
<td>–</td>
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<tr>
<td></td>
<td></td>
<td>Cutleaf evening primrose</td>
<td>–</td>
<td>3</td>
<td>–</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Devilsclaw (unicorn plant)</td>
<td>3</td>
<td>6</td>
<td>–</td>
<td>–</td>
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<tr>
<td></td>
<td></td>
<td>Dwarf dandelion</td>
<td>12</td>
<td>–</td>
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<tr>
<td></td>
<td></td>
<td>Eastern mannagrass</td>
<td>8</td>
<td>12</td>
<td>–</td>
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<td></td>
<td></td>
<td>Eclipta</td>
<td>4</td>
<td>8</td>
<td>12</td>
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<tr>
<td></td>
<td></td>
<td>Fall panicum</td>
<td>4</td>
<td>–</td>
<td>6</td>
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<tr>
<td></td>
<td></td>
<td>False dandelion</td>
<td>–</td>
<td>20</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Falseflax, smallseed</td>
<td>12</td>
<td>–</td>
<td>–</td>
<td>–</td>
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<tr>
<td></td>
<td></td>
<td>Fiddleneck</td>
<td>–</td>
<td>6</td>
<td>12</td>
<td>–</td>
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<tr>
<td></td>
<td></td>
<td>Field pennycress</td>
<td>6</td>
<td>12</td>
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<td></td>
<td></td>
<td>Filar ee</td>
<td>–</td>
<td>6</td>
<td>–</td>
<td>12</td>
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<tr>
<td></td>
<td></td>
<td>Fleabane, annual</td>
<td>6</td>
<td>20</td>
<td>–</td>
<td>–</td>
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<tr>
<td></td>
<td></td>
<td>Fleabane, hairy (Conyza bonanensis)</td>
<td>–</td>
<td>–</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fleabane, rough</td>
<td>3</td>
<td>6</td>
<td>12</td>
<td>–</td>
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<tr>
<td></td>
<td></td>
<td>Florida pusley</td>
<td>–</td>
<td>4</td>
<td>–</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Foxtail, giant, bristly, yellow</td>
<td>6</td>
<td>12</td>
<td>20</td>
<td>–</td>
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<tr>
<td></td>
<td></td>
<td>Foxtail, Carolina</td>
<td>10</td>
<td>–</td>
<td>–</td>
<td>–</td>
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<tr>
<td></td>
<td></td>
<td>Foxtail, green</td>
<td>12</td>
<td>–</td>
<td>–</td>
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<tr>
<td></td>
<td></td>
<td>Goatsgrass, jointed</td>
<td>6</td>
<td>12</td>
<td>–</td>
<td>–</td>
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<tr>
<td></td>
<td></td>
<td>Goosegrass</td>
<td>–</td>
<td>3</td>
<td>6</td>
<td>12</td>
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<tr>
<td></td>
<td></td>
<td>Grain sorghum (milo)</td>
<td>6</td>
<td>12</td>
<td>20</td>
<td>–</td>
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<tr>
<td></td>
<td></td>
<td>Groundcherry</td>
<td>–</td>
<td>3</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Groundsel, common</td>
<td>–</td>
<td>6</td>
<td>10</td>
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<tr>
<td></td>
<td></td>
<td>Hemp sesbania</td>
<td>–</td>
<td>2</td>
<td>4</td>
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<tr>
<td></td>
<td></td>
<td>Henbit</td>
<td>–</td>
<td>–</td>
<td>6</td>
<td>12</td>
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<tr>
<td></td>
<td></td>
<td>Horseweed/Marestail (Conyza canadensis)*</td>
<td>–</td>
<td>6</td>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Itchgrass</td>
<td>6</td>
<td>8</td>
<td>12</td>
<td>18</td>
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<tr>
<td></td>
<td></td>
<td>Jimsonweed</td>
<td>–</td>
<td>12</td>
<td>–</td>
<td>18</td>
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<tr>
<td></td>
<td></td>
<td>Johnsonsgrass, seeding</td>
<td>6</td>
<td>12</td>
<td>18</td>
<td>24</td>
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<tr>
<td></td>
<td></td>
<td>Junglerice</td>
<td>–</td>
<td>3</td>
<td>6</td>
<td>7</td>
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<tr>
<td></td>
<td></td>
<td>Knotweed</td>
<td>–</td>
<td>–</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Kochia*</td>
<td>–</td>
<td>3</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lambquarters</td>
<td>–</td>
<td>6</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Little barley</td>
<td>6</td>
<td>12</td>
<td>–</td>
<td>–</td>
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<tr>
<td></td>
<td></td>
<td>London rocket</td>
<td>6</td>
<td>–</td>
<td>24</td>
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</tr>
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<td></td>
<td></td>
<td>Mayweed</td>
<td>–</td>
<td>2</td>
<td>6</td>
<td>12</td>
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<tr>
<td></td>
<td></td>
<td>Morning glory, annual (Pomöeaa spp)</td>
<td>–</td>
<td>3</td>
<td>–</td>
<td>6</td>
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<tr>
<td></td>
<td></td>
<td>Mustard, blue</td>
<td>6</td>
<td>12</td>
<td>18</td>
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<tr>
<td></td>
<td></td>
<td>Mustard, tansy</td>
<td>6</td>
<td>12</td>
<td>18</td>
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<tr>
<td></td>
<td></td>
<td>Mustard, tumble</td>
<td>6</td>
<td>12</td>
<td>18</td>
<td>–</td>
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<tr>
<td></td>
<td></td>
<td>Mustard, wild</td>
<td>6</td>
<td>12</td>
<td>18</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nightshade, black</td>
<td>–</td>
<td>4</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nightshade, hairy</td>
<td>–</td>
<td>4</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oats</td>
<td>–</td>
<td>3</td>
<td>6</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pigweed, Palmer*</td>
<td>–</td>
<td>12</td>
<td>18</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pigweed species*</td>
<td>–</td>
<td>12</td>
<td>18</td>
<td>24</td>
</tr>
</tbody>
</table>

1 For control of downy brome in no-till systems, use 24 fluid ounces per acre.

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

3 Use 24 fluid ounces per acre of this product to control wild buckwheat in the cotyle-
don to 2-leaf stage. Use 32 fluid ounces per acre to control 2- to 4-leaf wild
buckwheat. For improved control of wild buckwheat over 2 inches in size, use
sequential treatments of 32 fluid ounces followed by 32 fluid ounces of this
product per acre.

4 Do not treat kochia in the button stage.

5 Control of Russian thistle may vary based on environmental conditions and spray cover-
age. Whenever possible, a tank mixture with 2,4-D as described below may improve
control.

* A glyphosate-resistant biotype has been confirmed. For additional information, refer
to the “WEED RESISTANCE MANAGEMENT” section of this label. You may also visit on
the Internet www.weedscience.org or www.weedresistancemanagement.com,
or contact your Monsanto representative.

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

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

For better control of common ragweed, giant ragweed, Pennsylvania smartweed, or
velvetleaf with a maximum height of 6-inches, tank mix this product with 0.5 pound
of 2,4-D per acre.

Ensure that the specific product is registered for application at the desired site. Follow
all precautions and limitations on the tank mix product’s label, including application timing restrictions, soil restrictions, minimum re-cropping interval and rotational guidelines. Some crop injury may occur if dicamba or Tordon 22K is applied within 45 days of planting.

Do NOT APPLY DICAMBA TANK MIXTURES BY AIR IN CALIFORNIA.

14.2 Annual Weeds—Hand- Held or Backpack Equipment

For control of weeds listed in the “ANNUAL WEEDS RATE TABLE” above, apply a 0.5-per-cent solution of this product to weeds less than 6 inches in height or runner length. Apply prior to seedhead formation in grass or bud formation in broadleaf weeds. For annual weeds over 6 inches tall, or unless otherwise specified, use a 1-per-cent solution. For best results, use a 2-per-cent solution on harder-to-control perennials, such as Bermudagrass, dock, field bindweed, hemp dogbane, milkweed and Canada thistle. When using application methods that result in less than complete coverage, use a 5-per-cent solution for annual and perennial weeds and a 5- to 10-per-cent solution for woody brush and trees.

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

For use only in Colorado, Kansas, Nebraska, Oklahoma, Oregon, South Dakota, and Washington. In Oregon and Washington, do not exceed 1 pound of atrazine per acre. Applications of 24 to 28 fluid ounces of this product plus 1 to 2 pounds of atrazine per acre will control the following weeds: barnyardgrass (requires 28 ounces for control), downy brome, green foxtail, lambsquarters, prickly lettuce, tansy mustard, pigweed, field sandbur, stinkgrass, Russian thistle, volunteer wheat, witchgrass and kochia (add 0.12 pound of dicamba for control).

Ensure that the specific product is registered for application at the desired site. Follow all precautions and limitations on the tank mix product’s label, including application timing restrictions, soil restrictions, minimum re-cropping interval and rotational guidelines.

15.0 PERENNIAL WEEDS RATE SECTION

Apply to actively growing perennial weeds.

NOTE: If weeds have been mowed or tilled, do not treat until plants have resumed active growth and have reached the recommended stages.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Repeat treatments must be made prior to crop emergence.

UNLESS OTHERWISE STATED, ALLOW 7 OR MORE DAYS AFTER APPLICATION BEFORE TILLAGE.

Best results are obtained when soil moisture is adequate for active weed growth.

**ANNUAL WEEDS RATE TABLE**

<table>
<thead>
<tr>
<th>Weed Species</th>
<th>Rate (QT/A)</th>
<th>Water Volume (GPA)</th>
<th>Hand-Held % Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alfalfa</strong></td>
<td>1 - 2</td>
<td>3 - 10</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Make applications after the last hay cutting. Allow alfalfa to regrow to a height of 6 to 8 inches or more prior to treatment. Applications should be followed with deep tillage at least 7 days after treatment, but before soil freeze-up.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Alligatorweed</strong></td>
<td>4</td>
<td>3 - 20</td>
<td>1.5%</td>
</tr>
<tr>
<td><strong>For partial control, apply when most of the plants are in bloom. Repeat applications will be required to achieve control.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Anise (fennel)</strong></td>
<td>–</td>
<td>–</td>
<td>1 - 2%</td>
</tr>
<tr>
<td><strong>Apply as a spray-to-wet treatment.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Bahiagrass</strong></td>
<td>3 - 5</td>
<td>3 - 20</td>
<td>2%</td>
</tr>
<tr>
<td><strong>For suppression in grass seed production areas. For ground applications only. Ensure entire crown area has resumed growth prior to a fall application.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Bentgrass</strong></td>
<td>3 - 5</td>
<td>10 - 20</td>
<td>2%</td>
</tr>
<tr>
<td><strong>For control, apply 5 quarts of this product per acre. For partial control, apply 3 quarts per acre. Treat when Bermudagrass is actively growing and seedheads are present. Retreatment may be necessary to achieve control.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Bermudagrass, water (knottedgrass)</strong></td>
<td>1 - 1.5</td>
<td>5 - 10</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Apply 3 pints of this product in 5 to 10 gallons of water per acre. When water Bermudagrass is 12 to 18 inches long, allow 7 or more days before tilling, flushing or flooding the field. Fall applications only. Apply 1 quart of this product in 5 to 10 gallons of water per acre. Fallow fields should be tilled prior to application. Apply prior to frost on water Bermudagrass that is 12 to 18 inches long.</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>This product is not registered in California for use on water Bermudagrass.</strong></td>
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<tr>
<td><strong>Bindweed, field</strong></td>
<td>0.5 - 5</td>
<td>3 - 20</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Do not treat when weeds are under drought stress as good soil moisture is necessary for active growth.</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>For control, apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts per acre east of the Mississippi River. Apply when the weeds are at or beyond full bloom. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost.</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Also for control, apply 2 quarts of this product plus 0.5 pound of dicamba in 10 to 20 gallons of water per acre. Do not apply by air.</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>For suppression on irrigated agricultural land, apply 1 to 2 quarts of this product plus 1 pound of 2,4-D in 10 to 20 gallons of water per acre with ground equipment only.</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Applications should be made following harvest or in fall fallow ground when the bindweed is actively growing and the majority of runners are 12 inches or more in length. Irrigate at least once to promote active bindweed growth.</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>For suppression, apply 1 pint of this product plus 0.5 pound of 2,4-D, in 3 to 10 gallons of water per acre for ground applications, and 3 to 5 gallons of water per acre for aerial applications. Apply by air in fallow and reduced tillage systems only. Applications should be delayed until maximum emergence has occurred and when vines are between 6 to 18 inches in length.</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>In California only, apply 1 to 5 quarts of this product per acre. Actual rate needed for suppression or control will vary within this range depending on local conditions. For suppression on irrigated land where annual tillage is performed, apply 1 quart of this product in 3 to 10 gallons of water per acre. Apply to bindweed that has reached a length of 12 inches or greater. Allow maximum weed emergence and runner growth. Allow 3 or more days after application before tillage.</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Bromegrass, Kentucky</strong></td>
<td>1 - 2</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Apply 2 quarts of this product in 10 to 40 gallons of water per acre when most plants have reached boot-to-ear seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1 to 1.5 quarts of this product in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Browntop</strong></td>
<td>3 - 4</td>
<td>3 - 40</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td><strong>Apply to fully expanded fronds that are at least 18 inches long.</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Bromegrass, smooth</strong></td>
<td>1 - 2</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Apply 2 quarts of this product in 10 to 40 gallons of water per acre when most plants have reached boot-to-ear seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1 to 1.5 quarts of this product in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height.</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Bursage, woolly-leaf</strong></td>
<td>–</td>
<td>3 - 20</td>
<td>2%</td>
</tr>
<tr>
<td><strong>For control, apply 2 quarts of this product plus 0.5 pound of dicamba per acre. For partial control, apply 1 quart of this product plus 0.5 pound of dicamba per acre.</strong></td>
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</tr>
<tr>
<td><strong>Apply when plants are producing new active growth which has been initiated by moisture for at least 2 weeks and when plants are at or beyond flowering.</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>Calytrix, reed</strong></td>
<td>2 - 3</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Also for control, apply 16 to 32 fluid ounces of this product plus 0.5 to 1 pound of 2,4-D in 3 to 10 gallons of water per acre.</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Cattail</strong></td>
<td>3 - 5</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Also for control, apply 1 to 2 pints of this product plus 0.5 pound of dicamba in 10 to 20 gallons of water per acre.</strong></td>
<td></td>
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<tr>
<td><strong>Clover, red or white</strong></td>
<td>3 - 5</td>
<td>3 - 20</td>
<td>2%</td>
</tr>
<tr>
<td><strong>For suppression, apply 1 pint of this product plus 0.5 pound of 2,4-D, in 3 to 10 gallons of water per acre.</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Crapemyrtle</strong></td>
<td>3 - 5</td>
<td>10 - 40</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Apply 2 quarts of this product plus 0.5 pound of dicamba per acre and 1 to 2 pints of 2,4-D, in 3 to 10 gallons of water per acre.</strong></td>
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<tr>
<td><strong>Crepis</strong></td>
<td>3 - 5</td>
<td>1 - 40</td>
<td>2%</td>
</tr>
<tr>
<td><strong>For control, apply 1 pint of this product plus 0.5 pound of 2,4-D, in 3 to 10 gallons of water per acre.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dock, curly</strong></td>
<td>3 - 5</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Also for control, apply 1 to 2 pints of this product plus 0.5 to 1 pound of 2,4-D, in 3 to 10 gallons of water per acre.</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Dogbane, hemp</strong></td>
<td>4</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Apply when most plants have reached the late bud to flower stage of growth. Following crop harvest or mowing, allow weeds to regrow to a mature stage prior to treatment. For best results, apply in late summer or fall.</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>For suppression, apply 1 pint of this product plus 0.5 pound of 2,4-D, in 3 to 10 gallons of water per acre for ground applications, and 3 to 5 gallons of water per acre for aerial applications. Delay applications until maximum emergence of dogbane has occurred.</strong></td>
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<tr>
<td><strong>Fescue (except tall)</strong></td>
<td>3 - 5</td>
<td>3 - 20</td>
<td>2%</td>
</tr>
<tr>
<td>Weed Species</td>
<td>Rate (Qt./A)</td>
<td>Water Volume (GPA)</td>
<td>Hand-Held % Solution</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-------------</td>
<td>--------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>Fescue, tall</td>
<td>1 - 3</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td>Apply 3 quarts of this product per acre when most plants have reached boot-to-early seedhead stage of development.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall applications only.</td>
<td>Apply 1 quart of this product in 3 to 10 gallons of water per acre. Apply to fescue in the fall when plants have 6 to 12 inches of new growth. A sequential application of 1 pint per acre of this product will improve long-term control and control seedlings germinating after fall treatments or the following spring.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guineagrass</td>
<td>2 - 3</td>
<td>3 - 40</td>
<td>1%</td>
</tr>
<tr>
<td>Apply when most plants have reached at least the 7-leaf stage of growth. Ensure thorough coverage when using hand-held equipment. In Texas and ridge of Florida, use 2 quarts of this product per acre for control. In the flatwoods region of Florida, 3 quarts of this product per acre are required for control.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Horsenettle</td>
<td>3 - 5</td>
<td>3 - 20</td>
<td>2%</td>
</tr>
<tr>
<td>Apply when most plants have reached the late bud to flower stage of growth. For best results, apply in late summer or fall.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iceplant</td>
<td>–</td>
<td>–</td>
<td>1.5 - 2%</td>
</tr>
<tr>
<td>Thorous coverage is necessary for best control.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jerusalem artichoke‡</td>
<td>3 - 5</td>
<td>3 - 20</td>
<td>2%</td>
</tr>
<tr>
<td>In annual cropping systems, apply 1 to 2 quarts of this product per acre. Apply 1 quart of this product in 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre. In non-crop areas, or areas where annual tillage (no-till) is not practiced, apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre. For best results, apply when most plants have reached the boot-to-head stage of growth or in the fall prior to frost. Allow 7 or more days after application before tillage. Do not tank mix with residual herbicides when using 1 quart of this product per acre. For burned down of Johnsonsgrass, apply 1 pint of this product in 3 to 10 gallons of water per acre before the plants reach a height of 12 inches. For this use, allow at least 3 days after treatment before tillage.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kikuyagrass</td>
<td>2 - 3</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td>Spray when most kikuyagrass is at least 8 inches in height (3- or 4-leaf stage of growth). Allow 3 or more days after application before tillage.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Knaweed</td>
<td>4</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td>Apply when most plants have reached the late bud to flower stage of growth. For best results, apply in late summer or fall.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lantana</td>
<td>–</td>
<td>–</td>
<td>1 - 1.25%</td>
</tr>
<tr>
<td>Apply to or beyond the bloom stage of growth. Use the higher application rate for plants that have reached the woody stage of growth.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lespedeza§</td>
<td>3 - 5</td>
<td>3 - 20</td>
<td>2%</td>
</tr>
<tr>
<td>Milkweed, common</td>
<td>3</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td>Apply when most plants have reached the late bud to flower stage of growth.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Muhly, wisewire</td>
<td>1 - 2</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td>Use 1 quart of this product in 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre or in pasture, sod, or non-crop areas. Spray when the wisewire mushly is 8 inches or more in height. Do not till between harvest and fall applications, or in the fall or spring prior to spring applications. Allow 3 or more days after application before tillage.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mulllein, common</td>
<td>3 - 5</td>
<td>3 - 20</td>
<td>2%</td>
</tr>
<tr>
<td>Napiengrass</td>
<td>3 - 5</td>
<td>3 - 20</td>
<td>2%</td>
</tr>
<tr>
<td>Nightshade, silverleaf</td>
<td>2</td>
<td>3 - 10</td>
<td>2%</td>
</tr>
<tr>
<td>Applications should be made when at least 60 percent of the plants have berries. Fall treatments must be applied before a killing frost.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nutsedge, purple or yellow</td>
<td>0.5 - 3</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Apply 3 quarts of this product per acre or apply a 1 to 2 percent solution for control of nutsedge plants and immature nutlets attached to treated plants. Treat when plants are in flower or when new nutlets can be found at rhizome tips. Nutlets that have not germinated will not be controlled and may germinate following treatment. Repeat treatments will be required for long-term control of ungerminated tubers. Sequential applications: 1 to 2 quarts of this product in 3 to 10 gallons of water per acre will also provide control. Make applications when a majority of the plants are in the 3- to 5-leaf stage (less than 6 inches tall). Repeat this application, as necessary, when newly emerging plants reach the 3- to 5-leaf stage. Subsequent applications will be necessary for long-term control. For partial control of existing plants, apply 1 pint to 2 quarts of this product in 3 to 40 gallons of water per acre. Treat when plants have 3 to 5 leaves and most are less than 6 inches tall. Repeat treatments will be required to control subsequent emerging plants or regrowth of existing plants.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orchardgrass</td>
<td>1 - 2</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td>Apply 2 quarts of this product in 10 to 40 gallons of water per acre when most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1 to 1.5 quarts of this product in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height. Orchardgrass sods going to no-till corn: Apply 1 to 1.5 quarts of this product in 3 to 10 gallons of water per acre. Apply to orchardgrass that is a minimum of 12 inches tall for spring applications, and 6 inches tall for fall applications. Allow at least 3 days following application before planting. A sequential application of atrazine will be necessary for optimum results.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pampasgrass</td>
<td>–</td>
<td>–</td>
<td>1.5 - 2%</td>
</tr>
<tr>
<td>Pampasgrass should be at or beyond the boot stage of growth. Thorough coverage is necessary for best control.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paragras§</td>
<td>3 - 5</td>
<td>3 - 20</td>
<td>2%</td>
</tr>
<tr>
<td>Phragmites</td>
<td>3 - 5</td>
<td>10 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>For partial control and best results, treat during late summer or fall when plants are actively growing and in full bloom. Treatment before or after this stage may result in reduced control. Due to the dense nature of this vegetation that may prevent good spray coverage or uneven stages of growth, repeat treatments may be necessary to achieve control. Visual control symptoms will be slow to develop.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poison hemlock</td>
<td>–</td>
<td>–</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>For hand-held, apply as a spray-to-wet treatment. Optimum results are obtained when plants are treated at the bud to full-bloom stage of growth. Thorough coverage is necessary for best control.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pokeweed, common</td>
<td>1</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td>Apply to actively growing plants up to 24 inches tall.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quackgrass</td>
<td>1 - 3</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td>In annual cropping systems, or in pastures and sods followed by deep tillage: Apply 1 quart of this product in 3 to 10 gallons of water per acre. For 10 to 40 gallons of water per acre, apply 2 quarts of this product. Do not tank mix with residual herbicides when using the 1-quart rate. Spray when quackgrass is 6 to 8 inches in height. Do not till between harvest and fall applications or in fall or spring prior to spring application. Allow 3 or more days after application before tillage. In pastures or sods, use a moldboard plow for best results. In pastures, sods or non-crop areas where deep tillage does not follow application: Apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre when the quackgrass is greater than 8 inches tall.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Redune</td>
<td>0.75 - 2</td>
<td>5 - 10</td>
<td>2%</td>
</tr>
<tr>
<td>For suppression, apply 1.5 pints of this product per acre at each of two applications 7 to 14 days apart or a single application of 2 quarts per acre. Apply recommended rates in 5 to 10 gallons of water per acre. Apply in late September or early October to plants that are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least 1 week before a killing frost.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reed, giant</td>
<td>–</td>
<td>–</td>
<td>2%</td>
</tr>
<tr>
<td>Best results are obtained when applications are made in late summer to fall.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ryegrass, perennial</td>
<td>1 - 3</td>
<td>3 - 40</td>
<td>1%</td>
</tr>
<tr>
<td>In annual cropping systems, apply 1 to 2 quarts of this product per acre. Apply 1 quart of this product in 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre. In non-crop areas, or areas where annual tillage (no-till) is not practiced, apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre. For best results, apply when most plants have reached the boot-to-head stage of growth or in the fall prior to frost. Do not tank-mix with residual herbicides when using 1 quart of this product per acre.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Smartweed, swamp‡</td>
<td>3 - 5</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td>Also for control, apply 1 pint of this product plus 0.5 pound of 2,4-D, in 3 to 10 gallons of water per acre in the late summer or fall.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sowthistle, perennial</td>
<td>2 - 3</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td>Apply when most plants are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall will at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall tillages must be applied before a killing frost. Allow 3 or more days after application before tillage.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spurge, leafy</td>
<td>3 - 10</td>
<td>–</td>
<td>2%</td>
</tr>
<tr>
<td>For suppression, apply 1 pint of this product plus 0.5 pound of 2,4-D in 3 to 10 gallons of water per acre in the late summer or fall. If mowing has occurred prior to treatment, apply when most plants are 12 inches tall.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Starthistle, yellow</td>
<td>2</td>
<td>10 - 40</td>
<td>2%</td>
</tr>
<tr>
<td>Best results are obtained when applications are made during the rosette, bolting and early flower stages.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
For partial control, apply to plants that are at or beyond the bud stage of growth. Repeat applications may be required.

Thistle, artichoke

For partial control, apply to plants that are at or beyond the bud stage of growth. Repeat applications may be required.

Thistle, Canada

Apply when most plants are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage.

For suppression in the spring, apply 1 quart of this product, or 1 pint of this product plus 0.5 pound of 2,4-D, in 3 to 10 gallons of water per acre. Allow rosette regrowth to a minimum of 6 inches in diameter before treating. Applications can be made as long as leaves are still green and plants are actively growing at the time of application. Allow 3 or more days after application before tillage.

Apply when most plants have reached the early bud stage of growth.

### Woody Brush and Trees Rate Section

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

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

Unless otherwise directed, apply broadcast treatments in 3 to 40 gallons of water per acre. Ensure thorough coverage when using hand-held equipment. Symptoms may not appear prior to frost or senescence with fall treatments.

Allow 7 or more days after application before tillage, mowing or removal. Repeat treatments may be necessary to control plants regenerating from underground parts or seed. Some autumn colors on undesirable deciduous species are acceptable provided no regrowth to a minimum of 6 inches in diameter before treating. Applications can be made as long as leaves are still green and plants are actively growing at the time of application. Allow 7 or more days after application before tillage.

<table>
<thead>
<tr>
<th>Weed Species</th>
<th>Rate (QT/A)</th>
<th>Water Volume (GPA)</th>
<th>Hand-Held % Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sweet potato, wild</td>
<td>–</td>
<td>–</td>
<td>2%</td>
</tr>
</tbody>
</table>
| For partial control, apply to plants that are at or beyond the bud stage of growth. Repeat applications may be required.
| Thistle, artichoke | – | – | 2% |
| For partial control, apply to plants that are at or beyond the bud stage of growth. Repeat applications may be required.
| Thistle, Canada | 2 - 3 | 3 - 40 | 2% |
| Apply when most plants are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage. | | | |
| For suppression in the spring, apply 1 quart of this product, or 1 pint of this product plus 0.5 pound of 2,4-D, in 3 to 10 gallons of water per acre. Allow rosette regrowth to a minimum of 6 inches in diameter before treating. Applications can be made as long as leaves are still green and plants are actively growing at the time of application. Allow 3 or more days after application before tillage. | | | |
| Timothy | 2 - 3 | 3 - 40 | 2% |
| Torpedograss | 4 - 5 | 3 - 40 | 2% |
| For partial control, apply to plants that are at or beyond the headseed stage of growth. Repeat applications will be required to achieve control. Fall treatments must be applied before frost. | | | |
| Trumpetreepr | 2 | 5 - 10 | 2% |
| For partial control, apply in late September or October, to plants that are at least 18 inches tall and have been growing 45 to 60 days since the frost. | | | |
| Vaseygrass | 3 - 5 | 3 - 20 | 2% |
| Velvetgrass | 3 - 5 | 3 - 20 | 2% |
| Wheatgrass, western | 2 - 3 | 3 - 40 | 2% |
| Apply when most plants have reached the early bud stage of growth. | | | |
| 1 | Apply when most plants have reached the early bud stage of growth.
| 2 | Apply when most plants have reached the early heading stage of growth.

### Woody Brush and Trees Rate Table

(Alphabetically by Species)

<table>
<thead>
<tr>
<th>Weed Species</th>
<th>Rate (QT/A)</th>
<th>Water Volume (GPA)</th>
<th>Hand-Held % Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alder</td>
<td>3 - 4</td>
<td>3 - 40</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Ash</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Aspen, quaking</td>
<td>2 - 3</td>
<td>3 - 40</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Bearmat (Bearclover)</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Beech</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Birch</td>
<td>2 - 3</td>
<td>3 - 40</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Blackberry</td>
<td>3 - 4</td>
<td>10 - 40</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Make applications after plants have reached full leaf maturity. Best results are obtained when applications are made in late summer or fall. Applications may also be made after leaf drop and until a killing frost or as long as stems are green. After berries have set or dropped in late fall, blackberry can be controlled by applying a 0.75 percent solution of this product. For control of blackberries after leaf drop and until killing frost or as long as stems are green, apply 3 to 4 quarts of this product in 10 to 40 gallons of water per acre.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blackgum</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Bracken</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Broom, French, Scotch</td>
<td>–</td>
<td>–</td>
<td>1.5 - 2%</td>
</tr>
<tr>
<td>Buckwheat, California</td>
<td>–</td>
<td>–</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Cascara</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Catsclaw</td>
<td>–</td>
<td>–</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Ceanothus</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Chamise</td>
<td>–</td>
<td>–</td>
<td>1%</td>
</tr>
<tr>
<td>Cherry, bitter, black, pin</td>
<td>2 - 3</td>
<td>3 - 40</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Coyote bitter</td>
<td>–</td>
<td>–</td>
<td>1.5 - 2%</td>
</tr>
<tr>
<td>Apply when at least 50 percent of the new leaves are fully developed.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dogwood</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Elderberry</td>
<td>2 - 3</td>
<td>3 - 40</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Elm</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Eucalyptus</td>
<td>–</td>
<td>–</td>
<td>2%</td>
</tr>
<tr>
<td>For control of eucalyptus resprouts, apply when resprouts are 6 to 12 feet tall. Ensure complete coverage. Avoid application to drought-stressed plants.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Florida holly</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Gorse</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Hasardia</td>
<td>–</td>
<td>–</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Hawthorn</td>
<td>2 - 3</td>
<td>3 - 40</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Hazel</td>
<td>2 - 3</td>
<td>3 - 40</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Hickory</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Honeysuckle</td>
<td>3 - 4</td>
<td>3 - 40</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Horbeam, American</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Kudzu</td>
<td>4 - 5</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td>Repeat applications may be required to achieve control.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Locust, black</td>
<td>2 - 4</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Madrone resprouts</td>
<td>–</td>
<td>–</td>
<td>2%</td>
</tr>
<tr>
<td>Apply to resprouts that are 3 to 6 feet tall. Best results are obtained with spring/early summer treatments.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manzanita</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Maple, red</td>
<td>2 - 4</td>
<td>3 - 40</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Apply a 1- to 1.5-percent solution when at least 50 percent of the new leaves are fully developed. For partial control, apply 2 to 4 quarts of this product per acre.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maple, sugar</td>
<td>–</td>
<td>–</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Apply when at least 50 percent of the new leaves are fully developed.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monkey flower</td>
<td>–</td>
<td>–</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Oak, black, white</td>
<td>2 - 4</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Oak, post</td>
<td>3 - 4</td>
<td>3 - 40</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Oak, northern</td>
<td>–</td>
<td>–</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Apply when at least 50 percent of the new pin leaves are fully developed.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oak, southern red</td>
<td>2 - 3</td>
<td>3 - 40</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Persimmon</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Pine</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Poison ivy/Poison oak</td>
<td>4 - 5</td>
<td>3 - 40</td>
<td>2%</td>
</tr>
<tr>
<td>Repeat applications may be required to achieve control. Fall treatments must be applied before leaves lose green color.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Poplar, yellow</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Redbud, eastern</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Rose, multiflora</td>
<td>2</td>
<td>3 - 40</td>
<td>1%</td>
</tr>
<tr>
<td>Treatments should be made prior to leaf deterioration by leaf-eating insects.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Russian olive</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Sage, black</td>
<td>–</td>
<td>–</td>
<td>1%</td>
</tr>
<tr>
<td>Sage, white</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Sage brush, California</td>
<td>–</td>
<td>–</td>
<td>1%</td>
</tr>
<tr>
<td>Salmonberry</td>
<td>2 - 3</td>
<td>3 - 40</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Saltcedar</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Sassafras</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Sourwood</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Sumac, poison smooth, winged</td>
<td>2 - 4</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Sweetgum</td>
<td>2 - 3</td>
<td>3 - 40</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Weed Species</td>
<td>Rate (QT/A)</td>
<td>Water Volume (GPA)</td>
<td>Hand-Held % Solution</td>
</tr>
<tr>
<td>---------------------</td>
<td>-------------</td>
<td>--------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>Swordfern</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Tallowtree, Chinese</td>
<td>–</td>
<td>–</td>
<td>1%</td>
</tr>
<tr>
<td>Tan oak resprouts</td>
<td>–</td>
<td>–</td>
<td>2%</td>
</tr>
<tr>
<td>Apply to resprouts that are less than 3 to 6 feet tall. Best results are obtained with fall applications.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thimbleberry</td>
<td>2 - 3</td>
<td>3 - 40</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Tobacco, tree</td>
<td>–</td>
<td>–</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Trumpetcreeper</td>
<td>2 - 3</td>
<td>3 - 40</td>
<td>1 - 1.5%</td>
</tr>
<tr>
<td>Vine maple</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Virginia creeper</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Waxmyrtle, southern</td>
<td>2 - 5</td>
<td>3 - 40</td>
<td>1 - 2%</td>
</tr>
<tr>
<td>Willow</td>
<td>3 - 4</td>
<td>3 - 40</td>
<td>1 - 1.5%</td>
</tr>
</tbody>
</table>

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

17.0 LIMIT OF WARRANTY AND LIABILITY

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. 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.

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To the extent consistent with applicable law, buyer and all users are responsible for all loss 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, 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, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

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

For in-crop (over-the-top) uses on Roundup Ready crops, crop safety and weed control performance are not warranted by Monsanto when this product is used in conjunction with “brown bag” or “bin run” seed saved from previous year’s production and replanted.

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