Credit® 41 Extra Non-Selective Herbicide

For Non-Selective, Broad-Spectrum Weed Control in Many Agricultural Systems, including Roundup Ready Crops and Specified Glyphosate Tolerant Crops

1.0 INGREDIENTS

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

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

TOTAL: .............................................................................................................................................................................. 100.0%

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

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

AVOID CONTACT WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

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

EPA Reg. No. 71368-20
EPA Est. No. 228-IL-001

Net Contents
1 Qt.
(946 mL)

Manufactured for
Nufarm Inc.
11901 S. Austin Avenue
Alsip, IL 60803

2.0 IMPORTANT PHONE NUMBERS
For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC
(800) 424-9300

For Medical Emergencies Only,
Call (877) 325-1840

EPA Reg. No. 71368-20
EPA Est. No. 228-IL-001

Consists of:

GLYPHOSATE GROUP 9 HERBICIDE

Non-Selective Herbicide

For Non-Selective, Broad-Spectrum Weed Control in Many Agricultural Systems, including Roundup Ready Crops and Specified Glyphosate Tolerant Crops
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3.0 PRECAUTIONARY STATEMENTS

3.1 HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Harmful if swallowed or inhaled. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear: Long-sleeved shirt and long pants and shoes plus socks. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product’s concentrate. Do not reuse them. 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.

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 could result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

ENGINEERING CONTROL STATEMENTS: 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.

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.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change 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 wash waters and rinsate.

3.3 PHYSICAL OR CHEMICAL HAZARDS
Spray solutions of this product may be mixed, stored and applied using stainless steel, fiberglass, plastic or plastic-lined steel containers.
DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas, which can form a highly combustible gas mixture. This gas mixture could flash or explode if ignited by open flame, spark, welder’s torch, lighted cigarette or other ignition source and cause serious personal injury.

DIRECTIONS FOR USE
It Is A Violation Of Federal Law To Use This Product In Any Manner Inconsistent With Its Labeling. 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.

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

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

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls and Waterproof Gloves.
4.0 PRODUCT INFORMATION

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

Do not add surfactants, additives containing surfactants, buffering agents or pH adjusting agents to the spray solution when Credit 41 Extra is the only pesticide being applied unless otherwise directed. See the “MIXING” section of this label for instructions regarding other additives.

**Mechanism 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:** This product binds tightly to soil particles and does not provide residual weed control. Weeds must be emerged at the time of application to be controlled by foliar application of this product. Weed seeds in the soil will not be affected by this product and will continue to germinate. Unattached plant rhizomes and root stocks beneath the soil surface will also not be affected by this product.

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

**Stage of Weeds:** Annual weeds are easiest to control when they are small. Optimal control of most perennial weeds is obtained when this product is applied at late growth stages approaching maturity. Refer to the “ANNUAL WEEDS RATE SECTION,” “PERENNIAL WEEDS RATE SECTION” and “WOODY BRUSH, TREES AND VINES RATE SECTION” for more information on the control of specific weeds.
**Cultural Considerations:** Reduced weed control could result when this product is applied to annual or perennial weeds that have been mowed, grazed or cut, and have not been allowed to re-grow prior to application. Always use a higher product application rate within the given range when weed growth is heavy or dense, or when weeds are growing in an undisturbed (non-cultivated) area. Reduced weed control could also result when this product is applied to weeds that show signs of disease or insect damage, are covered with dust, or are surviving under poor growing conditions.

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

**Rainfastness:** Heavy rainfall soon after application may wash this product off of the foliage and a repeat application may be required for adequate control. For maximum effectiveness, product should be applied 4 hours prior to irrigation or rain. Refer to specific use sections of this label for additional information on the minimum intervals required before re-application of this product.

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

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

Unless otherwise specified on this label, the combined total application of this product on a site must not exceed 8 quarts (6 pounds of Glyphosate acid) per acre per year. For applications on
non-crop sites, or on tree, vine or shrub crop production sites, the combined total application of this product must not exceed 10.6 quarts (8 pounds of Glyphosate acid) per acre per year.

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

### 5.0 WEED RESISTANCE MANAGEMENT

For resistance management, this product contains a Group 9 herbicide – Glyphosate. Any weed population may contain or develop plants naturally resistant to Leopard and other Group 9 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance management strategies should be followed.

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of this product or other Group 9 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.

- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.

- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
• Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.

• If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.

• Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Contact your local sales representative, crop advisor, or extension agent to find out if suspected resistant weeds to this MOA have been found in your region. Do not assume that each listed weed is being controlled by this mechanisms of action. Co-formulated active ingredients are intended to broaden the spectrum of weeds that are controlled. Some weeds may be controlled by only one of the active ingredient in this product.

Suspected herbicide-resistant weeds may be identified by these indicators:
  * Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
  * A spreading patch of non-controlled plants of a particular weed species; and
  * Surviving plants mixed with controlled individuals of the same species.
5.1 Integrated Pest Management
Nufarm recommends the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

5.2 Management of Glyphosate-Resistant Biotypes
Appropriate testing is needed to determine if a weed is resistant to Glyphosate. Contact your Nufarm representative to determine if resistance in any particular weed biotype has been confirmed in your area.

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

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

6.0 MIXING
Spray solutions of this product may be mixed, stored and applied using clean stainless steel, fiberglass, plastic or plastic-lined steel containers.
DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS.
Eliminate any risk of siphoning the contents of the tank back into the carrier source while mixing. Use approved anti-back-siphoning devices where required by State or local regulations.
A 50-mesh nozzle screen or line strainer on the spray equipment is adequate.
Clean sprayer parts promptly after using this product by thoroughly flushing with water.
6.1 Mixing with Water

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

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

6.2 Tank Mixtures

It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

This product does not provide residual weed control. This product may be tank-mixed with other herbicides to provide residual weed control in the soil, a broader weed control spectrum, or an alternate mechanism of action.

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

Tank mixtures with other herbicides, insecticides, fungicides, micronutrients or foliar fertilizers could result in reduced weed control or crop injury. Nufarm has not tested all tank-mix product formulations for compatibility, antagonism or reduction in product performance. To the extent consistent with applicable law, buyer and all users are responsible for any and all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly specified on this label, or on separate supplemental labeling or Fact Sheets published for this product.
When a tank-mix with a generic active ingredient, such as 2,4-D, atrazine, dicamba, diuron, pendimethalin, or any other product or material, is listed on this label, the user is responsible for ensuring that the specific application being made is included on the label of the product being used in the mix.

Refer to all individual product labels, supplemental labeling and Fact Sheets for all products in the tank mixture, and observe all precautions, restrictions and limitations on the label, including application timing restrictions, soil restrictions, minimum re-cropping intervals and any crop rotation restrictions. Use according to the most restrictive precautionary statements for each product in the tank mixture. For optimal results, apply tank mixtures with this product at a minimum spray volume rate of 10 gallons per acre.

6.3 Tank-Mixing Procedure

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

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

Prepare tank mixtures of this product as follows:

1. Place a 20- to 35-mesh screen or wetting basket over the filling port of the tank.
2. Through the screen, fill the tank one-half full with water and start gentle agitation.
3. If ammonium sulfate is to be used, add it slowly through the screen into the tank and continue adding water into the tank through the screen. If dry ammonium sulfate is being used, ensure that it is completely dissolved in the tank before adding other products.
4. If a wettable powder is used, prepare a slurry of it with water and add it SLOWLY through the screen into the tank while continuing gentle agitation.
5. If a flowable formulation is used, premix one part flowable with one part water and add the diluted mixture SLOWLY through the screen into the tank while continuing gentle agitation.
6. If an emulsifiable concentrate 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.
7 Continue filling the tank with water through the screen and add the required amount of this product near the end of the filling process.

8 Add individual tank-mix components to the tank as follows: wettable powders, flowables, emulsifiable concentrates, drift reduction additives, water soluble liquids.

Maintain gentle agitation at all times until the contents of the tank are sprayed out. If the spray mixture is allowed to settle, agitate thoroughly to re-suspend the mixture before resuming application.

Keep by-pass and return lines on or near the bottom of the tank to minimize foaming. A 50-mesh nozzle screen or line strainer on the spray equipment is adequate.

6.4 Mixing Spray Solution Concentrations

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

**Spray Solution Table:**

<table>
<thead>
<tr>
<th>Desired Volume</th>
<th>0.5%</th>
<th>1%</th>
<th>1-1/2%</th>
<th>2%</th>
<th>3%</th>
<th>5%</th>
<th>6%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Gallon</td>
<td>0.65 fl. oz.</td>
<td>1.3 fl. oz.</td>
<td>2 oz.</td>
<td>2.6 fl. oz.</td>
<td>4 fl. oz.</td>
<td>6-1/2 fl. oz.</td>
<td>8 fl. oz.</td>
<td>13 fl. oz.</td>
</tr>
<tr>
<td>25 Gallons</td>
<td>1 pint</td>
<td>1 quart</td>
<td>1-1/2 quart</td>
<td>2 quarts</td>
<td>3 quarts</td>
<td>5 quarts</td>
<td>6 quarts</td>
<td>10 quarts</td>
</tr>
<tr>
<td>100 Gallons</td>
<td>2 quarts</td>
<td>1 gallon</td>
<td>1-1/2 gallon</td>
<td>2 gallons</td>
<td>3 gallons</td>
<td>5 gallons</td>
<td>6 gallons</td>
<td>10 gallons</td>
</tr>
</tbody>
</table>

2 tablespoons = 1 fluid ounce (fl oz)

For filling backpack and pump-up sprayers, consider mixing the appropriate amount of this product with water in a larger container and then filling the sprayer from the larger container.
6.5 Surfactants
DO NOT add buffering agents or pH adjusting agents to the spray solution when Credit 41 Extra is the only pesticide product being applied.

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

6.6 Ammonium Sulfate
Unless otherwise directed, the addition of 1 to 2 percent dry ammonium sulfate by weight (8.5 to 17 pounds per 100 gallons of water), could increase the performance of this product on annual and perennial weeds, particularly under hard water conditions, drought conditions or when tank-mixed with certain residual herbicides. An equivalent amount of a liquid formulation of ammonium sulfate may also be used. Ensure that dry ammonium sulfate is completely dissolved in the spray tank before adding herbicides. Thoroughly rinse the spray system with clean water promptly after use to reduce corrosion.

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

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

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

This product may be applied with the following application equipment:

**Aerial Application Equipment**-fixed-wing and helicopter

**Ground Application Equipment**-boom or boomless systems, pull-type sprayers, floaters, pick-up sprayers, spray coupes and other ground broadcast application equipment

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

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

**Selective Application Equipment**-shielded and hooded sprayers, wiper applicator, sponge bar

**Injection Systems**-aerial or ground injection sprayers

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

APPLY THIS PRODUCT USING PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF ACCURATELY DELIVERING DESIRED VOLUMES. Do not apply this product through any type of irrigation system.

7.1 Spray Drift Management

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

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

AVOID DRIFT. USE EXTREME CARE TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHEN APPLYING THIS PRODUCT.
Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions regarding the application of this product.

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

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

**AVOID APPLYING THIS PRODUCT AT EXCESSIVE SPEED OR SPRAYER PRESSURE.**

**7.2 Aerial Application Equipment**

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

**DO NOT APPLY THIS PRODUCT USING AERIAL APPLICATION EQUIPMENT EXCEPT UNDER CONDITIONS SPECIFIED ON THIS LABEL OR ON SEPARATELY PUBLISHED SUPPLEMENTAL LABELING FOR THIS PRODUCT.**

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

Unless otherwise directed, the maximum single application rate of this product is 64 fluid ounces per acre when using aerial application equipment. Apply this product at the appropriate rate in 3 to 15 gallons of water per acre unless otherwise directed on this label or on separate supplemental...
labeling for this product. Refer to the individual use sections of this label for application rates, spray volumes and additional directions for use.

Drift control reduction additives may be used.

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

**Aircraft Maintenance**

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

**AERIAL SPRAY DRIFT MANAGEMENT**

The following drift management requirements must be followed to minimize off-target drift movement during aerial application. These requirements do not apply to forestry applications.

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

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

**Importance of Droplet Size**

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if the application is made improperly, or under unfavorable environmental conditions, such as in windy, high temperature with low humidity, and/or inversion conditions as described below.
Controlling Droplet Size

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

- **Pressure:** Operate at a sprayer pressure towards the lower end of the range listed for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing the pressure.

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

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

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

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

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

Swath Adjustment

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

Wind

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

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

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

**Temperature Inversion**
Do not apply this product during a temperature inversion as drift potential is high under these
conditions. Temperature inversions restrict vertical air mixing, which causes small droplets to remain
suspended in a concentrated cloud. This cloud can move in unpredictable directions due to the light
variable winds common during inversions. Temperature inversions are characterized by increasing
temperatures with altitude and are common on nights with limited cloud cover and light to no wind.
They begin to form as the sun sets and often continue into the morning. Their presence can be
indicated by ground fog; however, if fog is not present, inversions can also be identified by the
movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and
moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while
smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

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

Avoid direct application to any body of water.
State Specific Limitations on Aerial Application

LIMITATIONS ON AERIAL APPLICATION IN CALIFORNIA ONLY

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

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

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

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

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

This product, when tank-mixed with dicamba, may not be applied by air in California.
Always read and follow the label directions and precautionary statements for all products used in the aerial application.

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

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

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

**Written Directions**

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

**Aerial Applicator Training and Equipment**

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

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

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

**LIMITATIONS ON AERIAL APPLICATION IN ARKANSAS ONLY**

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

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

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

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

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

Nozzles must always discharge backward parallel with the air stream and never discharge downwards more than 45 degrees on fixed wing aircraft or forward of the prevailing airflow on rotary winged aircraft. Avoid the use of nozzles with wide-angle discharge.
Do not apply this product when winds are in excess of 10 miles per hour. Do not apply when there is a low-level inversion where fine spray particles could be suspended in still air and move outside the target area when the inversion layer moves. These conditions can occur when wind speeds are less than 2 miles per hour.

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

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

7.3 Ground Application Equipment

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

7.4 Handheld Sprayers

When using a handheld sprayer, apply spray solutions of this product uniformly and completely to the foliage of target weeds using a coarse droplet spectrum and a spray-to-wet technique; do not spray to the point of runoff. For the appropriate concentration of this product in the spray solution and timing of application to control specific weeds, woody brush, trees and vines, refer to the “ANNUAL WEEDS RATE SECTION,” “PERENNIAL WEEDS RATE SECTION” and “WOODY BRUSH, TREES AND VINES RATE SECTION” of this label.
Spot treatment application of this product for weed control in a cropping system using a handheld sprayer may be made only when specifically directed on this label or on separate supplemental labeling for this product. The crop sprayed with this product will be killed along with the weeds. Take care not to spray or allow spray to drift outside the target area in order to avoid unwanted crop destruction.

**7.5 Selective Application Equipment**

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

**AVOID CONTACT OF THIS HERBICIDE WITH DESIRABLE VEGETATION.** Contact of this product with desirable vegetation could result in unwanted plant damage or destruction. To the extent consistent with applicable law, such damage shall be the sole responsibility of the applicator.

**Shielded and Hooded Sprayers**

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

A hooded sprayer is a type of shielded sprayer where the spray pattern is fully enclosed, including the top, sides, front and back, thereby shielding the crop or other desirable vegetation from the spray solution.

This product may be diluted in water and applied using a shielded or hooded sprayer to weeds listed on this label growing on any non-crop site described on this label and in between rows of plants (row middles) in any cropping system listed on this label.

Properly adjust the hood to protect desirable vegetation. Ensure that the hood is capable of completely enclosing the spray pattern. If necessary when applying around crops grown on raised beds, extend the front and rear flaps of the hooded sprayer downward to reach the ground in deep furrows.
A hooded sprayer must be configured and operated in a manner that minimizes bouncing and avoids raising the hood up off the ground surface at any time. If the hood is raised, spray particles can escape and come into contact with the crop, causing damage to or destruction of the crop or other desirable vegetation. Avoid operating this equipment on rough or sloping terrain where the spray hood is likely to rise up off the ground surface.

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

The following procedures will help reduce the potential for crop injury when using a hooded sprayer:
- Operate the sprayer with the hood on the ground or skimming across the ground surface.
- Leave at least an 8-inch untreated strip over the drill row. (For example, if the crop row width is 38 inches, make the maximum width of the spray hood 30 inches.)
- Operate at a ground speed of no greater than 5 miles per hour to minimize bouncing of the hooded sprayer.
- Apply when wind speed is 10 miles per hour or less.
- Use low-drift nozzles that will provide uniform coverage within the application area.

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

**Wiper Applicator**

A wiper applicator is a device that physically wipes this product or solutions of this product directly onto the target weed or cut stump. Any handheld device that is capable of physically wiping this product or solutions of this product directly onto the target weed or cut stump, such as a paint brush, may be used.
A mechanical wiper applicator, such as a rope wick or sponge bar that can be driven through a field over the top of a crop or other desirable vegetation to control weeds that are taller than the desirable vegetation, must be designed, maintained and operated to prevent the herbicide solution from contacting desirable vegetation.

Wiper applicators may be used over the top of food or feed crops ONLY if specifically permitted for use over that crop by this label or by separately published supplemental labeling for this product.

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

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

Keep wiper surfaces clean.

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

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

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

**For Rope and Sponge Wick Applicators** - use solutions ranging from 33 to 75 percent of this product in water.
For Panel Applicators- use solutions ranging from 33 to 100 percent (undiluted) of this product in water.

Mix only the amount of this product that will be used during a 1-day period, as reduced product performance can result from the use of solutions held in storage.

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

7.6 Injection Systems

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

7.7 Controlled Droplet Applicator (CDA)

The amount of this product applied per acre using a controlled droplet applicator (CDA) must be no less than the rate specified on this label for application using conventional broadcast application equipment.

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

8.0 ANNUAL AND PERENNIAL CROPS

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

See the “ROUNDUP READY AND SPECIFIED GLYPHOSATE TOLERANT CROPS” section of this label or separately published supplemental labeling for this product for directions for use in Roundup Ready and specified glyphosate tolerant crops.

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

Application of this product may be repeated as needed up to a maximum of 8 quarts per acre per year. Refer to specific use sections of this label for additional information on minimum intervals required before re-application of this product.

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

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

Unless otherwise prohibited, all applications of this product described in the sections that follow may be made using aerial application equipment where appropriate, provided that the applicator complies with the precautions and restrictions specified on this label and on all supplemental labeling published for this product. Refer to the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label for information on aerial application and procedures for avoiding spray drift that could cause injury to any vegetation not intended for application. Use of appropriate buffers will help prevent injury to adjacent vegetation.
TANK MIXTURES: This product may be tank-mixed with other herbicides to provide residual weed control, a broader weed control spectrum or an alternative mechanism of action. Always read and follow label directions for all products in the tank mixture. Use all products according to rates and timing specified on the label. Some tank-mix products have the potential to cause crop injury. Read the label for all products in the tank mixture prior to use to determine the potential for crop injury. Always predetermine the compatibility of tank-mix products together in the carrier by mixing small proportional quantities in advance. Mixing other products with this herbicide in the spray tank can cause incompatibility, antagonism, or a reduction in the efficacy of this product. Nufarm Company has not tested all product formulations for compatibility or performance in a tank-mix with this product. To the extent consistent with applicable law, buyer and all users are responsible for any and all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not specifically identified on this label or on separate supplemental labeling or Fact Sheets for this product. See the “MIXING” section of this label for more information on tank mixtures.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

PRECAUTIONS:

- Avoid contact of this herbicide with foliage, green shoots or stems, bark, exposed roots (including those emerging from plastic mulch), or fruit of crops, as severe crop injury or destruction could result.
- Transplant seedlings coming into contact with weeds that are still wet with a spray solution of this product could result in significant crop injury.
- When making preemergence applications, application must be made before crop emergence to avoid severe crop injury.
- Broadcast application of this product at emergence will result in injury or death of emerged seedlings.
- Apply before seed germination in coarse sandy soils to further minimize the risk of crop injury.
• In crops where spot treatment is allowed, the crop sprayed with this product will be killed along with the weeds.
• Take care not to spray or allow spray to drift outside the target area in order to avoid unwanted crop destruction.
• See the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label for additional information.
• Preharvest application on crops grown for seed could result in a reduction in germination or vigor.
• To the extent consistent with applicable law, buyer and all users are responsible for any and all loss or damage in connection with the preharvest use of this product on any crop grown for seed.

RESTRICTIONS:
• Observe the maximum application rates stated throughout this label.
• Maximum application rates apply to the use of this product combined with the use of any and all other herbicides containing Glyphosate as the active ingredient, whether applied separately or as mixtures.
• Calculate the application rates (Glyphosate acid equivalents) and ensure that the total use of this and specified glyphosate-containing products does not exceed the stated maximum rate.
• See the “PRODUCT INFORMATION” section of this label for more information on Maximum Application Rates.
• Unless otherwise directed on this label, application using selective equipment, including wiper applicators and hooded sprayers, must be made a minimum of 14 days prior to harvest.
• In crops where spot treatment is allowed, do not apply this product to more than 10 percent of the total field to be harvested, unless otherwise directed.
• Post-harvest and fallow applications must be made a minimum of 30 days prior to the planting of any crop not listed on this label.
• Pre-harvest Interval (PHI): Do not harvest or feed vegetation from an area for 8 weeks following broadcast postemergence application, unless otherwise directed.
• When applying this product as a tank mixture with one or more products, refer to each individual tank-mix product label for restrictions and apply the mixture in accordance with the most restrictive statements for each product in the tank.
8.1 Cereal and Grain Crops

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

Types of Application: Those listed in Section 8.0, plus Red Rice Control Prior to Planting Rice; Spot Treatment (except rice); Control of Barnyardgrass in Rice Using Renovation Treatment (California only); Wiper Applicator (feed barley and wheat only); Preharvest (feed barley and wheat only)

Preplant, At-Planting, Preemergence

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

Red Rice Control Prior to Planting Rice

Use instructions: Flush fields prior to application to obtain uniform germination and stand of red rice and then apply 48 fluid ounces of this product in 5 to 10 gallons of water per acre when the majority of the red rice plants are at the 2-leaf stage and no more than 4 inches tall. Red rice plants with less than 2 true leaves might only be partially controlled. Avoid spraying during conditions of low humidity, as reduced control of red rice could result.

Restriction:

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

Spot Treatment (Except Rice)

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

Restriction:

- Do not apply this product to more than 10 percent of the total field area to be harvested.
**Control of Barnyardgrass in Rice Using Renovation Treatment (California Only)**

**THIS APPLICATION FOR USE IN CALIFORNIA ONLY**

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

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

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

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

**RESTRICTIONS:**
- **Pre-harvest Interval (PHI):** Allow a minimum of 35 days between application and harvest.
- Do not use roller applicator.

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

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

Apply this product in 10 to 20 gallons of water per acre when using ground application equipment and in 3 to 10 gallons of water per acre when using aerial application equipment.

**RESTRICTIONS:**
- Do not apply more than 32 fluid ounces of this product per acre for preharvest application.
- **Pre-harvest Interval (PHI):** Allow a minimum of 7 days between application and harvest or grazing.
Post-Harvest

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

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

8.2 Corn

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

TYPES OF APPLICATION: Those listed in Section 8.0, plus Spot Treatment; Preharvest

For directions for use with field corn hybrids with Roundup Ready 2 Technology (including Roundup Ready Corn 2 and field corn products displaying the Roundup Ready 2 Technology logo), or with sweet corn hybrids with Roundup Ready 2 Technology (including Roundup Ready Sweet Corn and sweet corn products displaying the Roundup Ready 2 Technology logo), see the “ROUNDUP READY AND SPECIFIED GLYPHOSATE TOLERANT CROPS” section of this label.

Preplant, At-Planting, Preemergence

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

TANK MIXTURES: This product may be tank-mixed with the following products. Ensure that the product used is labeled for application prior to the planting or the emergence of the type of corn crop being grown. Read and follow label directions for all products in the tank mixture. Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre.
For hard-to-control annual weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply 32 fluid ounces of this product per acre in these tank mixtures. For other annual weeds listed on this label, apply 24 to 32 fluid ounces of this product per acre when weeds are less than 6 inches tall and 32 to 48 fluid ounces per acre when weeds are over 6 inches tall. When using a nitrogen solution as the carrier, higher specified application rates might be needed for acceptable weed control.

**RESTRICTIONS:**

- Application of 2,4-D or dicamba must be made a minimum of 7 days prior to planting corn.
- In Southern states, do not mix this product in nitrogen solutions for application to hard-to-control grasses such as barnyardgrass, fall panicum, broadleaf signalgrass, annual ryegrass and any perennial weeds. This area includes Illinois and Indiana south of Route 50, Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, New Jersey, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia and West Virginia.

**Hooded Sprayer**

**USE INSTRUCTIONS:** This product may be applied using a hooded sprayer for weed control in between rows of corn. Only hooded sprayers that completely enclose the spray pattern may be used. See additional instructions on the use of hooded sprayers in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.
RESTRICTIONS:
• Corn must be at least 12 inches tall, measured without extending leaves.
• Do not apply more than 32 fluid ounces of this product per acre for each hooded sprayer application and no more than 96 fluid ounces per acre per year total.

Spot Treatment
USE INSTRUCTIONS: This product may be applied as a spot treatment prior to silking of corn.
RESTRICTIONS: Do not apply this product to more than 10 percent of the total field area to be harvested.

Preharvest
USE INSTRUCTIONS: Up to 96 fluid ounces of this product per acre may be applied using ground application equipment, or up to 64 fluid ounces per acre using aerial application equipment, when kernel-fill is complete and the corn is physiologically mature (black layer formed) and grain moisture is 35 percent or less.
RESTRICTION:
• Pre-harvest Interval (PHI): Allow a minimum of 7 days between application and harvest.

Post-Harvest
USE INSTRUCTIONS: This product may be applied for weed control after harvest of corn. Higher rates might be needed to control large weeds that were growing in the field at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used. Ensure that the product used is labeled for post-harvest application in corn. Read and follow label directions for all products in the tank mixture.
RESTRICTIONS:
• Pre-harvest Interval (PHI): Allow a minimum of 7 days between application and harvest or feeding of vegetation within the application area.
• Application of this product must be made a minimum of 30 days prior to planting any crop not listed on this label.
### 8.3 Cotton

**TYPES OF APPLICATION:** Those listed in Section 8.0, plus Selective Equipment; Spot Treatment; Preharvest

For directions for use with Roundup Ready and specified glyphosate tolerant cotton and Roundup Ready Flex cotton, see the “ROUNDUP READY AND SPECIFIED GLYPHOSATE TOLERANT CROPS” section of this label.

**Preplant, At-Planting, Preemergence**

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

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

- acetochlor; clomazone; diuron; fluridone; flumioxazin; fluometuron; fomesafen; metolachlor; s-metolachlor; norflurazon; pendimethalin; prometryn; pyrithiobac-sodium; saflufenacil
- Caparol; Command; Cotoran; Cotton Pro; Dawn; Direx; Dual MAGNUM; Dual II MAGNUM; Karmex; Meturon; Prowl; Prowl H2O; Reflex; Rowel; Sharpen; Stalwart; Staple; Panther SC; Warrant; Zorial

**Selective Equipment**

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

**RESTRICTION:**

- Allow a minimum of 7 days between application and harvest.
Spot Treatment
USE INSTRUCTIONS: This product may be applied in cotton as a spot treatment prior to boll opening.
RESTRICTION:
• Do not apply this product to more than 10 percent of the total field area to be harvested.

Preharvest
USE INSTRUCTIONS: This product provides weed control and cotton re-growth inhibition when applied prior to harvest. For weed control, apply at rates given in the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL WEEDS RATE SECTION” of this label. For cotton re-growth inhibition, apply 16 to 64 fluid ounces of this product per acre. Make preharvest application only after sufficient bolls have developed to produce the desired yield. Application made prior to this time could affect maximum yield potential.
TANK MIXTURES: This product may be tank-mixed with DEF 6, Dropp, Folex, Ginstar, or Prep to enhance cotton leaf-drop. Read and follow label directions for all products used in the tank mixture.
REstrictions:
• Pre-harvest Interval (PHI): Allow a minimum of 7 days between application and harvest.
DO NOT ADD ADDITIONAL SURFACTANT OR ADDITIVES CONTAINING SURFACTANT TO THIS PRODUCT FOR PREHARVEST APPLICATION TO COTTON.
PRECAUTION:
• Preharvest application to cotton grown for seed may reduce germination or vigor.

8.4 Fallow Systems
This product may be applied during the fallow period prior to planting or emergence of any crop listed on this label. Application must be made a minimum of 30 days prior to the planting of any crop not listed on this label.
TYPES OF APPLICATION: Chemical Fallow; Preplant Fallow Beds; Aid-to-Tillage
**Chemical Fallow**

USE INSTRUCTIONS: This product may be used as a substitute for tillage to control annual weeds in fallow fields. Broadcast or spot treatment application will also control or suppress many perennial weeds in fallow fields. Tank-mix this product with 2,4-D or dicamba for a broader weed control spectrum. Aerial application of up to 64 fluid ounces of this product per acre may be made onto fallow fields where there is sufficient buffer to prevent injury due to drift onto adjacent crops.

PRECAUTION:

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

**Preplant Fallow Beds**

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

TANK MIXTURES: Apply 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 or length indicated: 3 inches- common cheeseweed, chickweed, groundsel; 6 inches- London rocket, shepherd’s-purse.

Apply 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 or length indicated: 6 inches- common cheeseweed, groundsel, marestail (*Conyza canadensis*); 12 inches- chickweed, London rocket, shepherd’s-purse.

**Aid-to-Tillage**

USE INSTRUCTIONS: This product may be used in conjunction with tillage practices in fallow systems, or prior to the planting of crops listed on this label (preplant), to control downy brome, cheat, volunteer wheat, tansy mustard and foxtail. Apply 12 fluid ounces of this product in 3 to 10 gallons of water per acre before weeds are 6 inches in height. Application must be followed by conventional tillage no later than 15 days after application and before re-growth occurs. Allow a minimum of 1 day after application before tillage.

PRECAUTION:

• Tank mixtures with residual herbicides could result in reduced performance of this product.
8.5 Grain Sorghum (Milo)

TYPES OF APPLICATION: Those listed in Section 8.0, plus Spot Treatment; Wiper Applicator; Preharvest

Preplant, At-Planting, Preemergence

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

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

acetochlor; alachlor; atrazine; metolachlor; s-metolachlor; saflufenacil

Bicep II MAGNUM; Dual II MAGNUM; Sharpen; Warrant

For hard-to-control annual weeds, such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply 32 fluid ounces of this product per acre in a tank mixture with one or more of the products listed here.

For control of other annual weeds listed on this label, apply 24 to 32 fluid ounces of this product per acre when weeds are less than 6 inches tall, and 32 to 48 fluid ounces per acre when weeds are over 6 inches tall. When using a nitrogen solution as the carrier, the application rate might need to be increased to achieve acceptable weed control.

Spot Treatment, Wiper Applicator

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

RESTRICTIONS:

- For spot treatment, do not apply this product to more than 10 percent of the total field area to be harvested.
• When applied using a wiper applicator, allow a minimum of 40 days between application and harvest.
• Do not use a roller applicator.
• Do not feed or graze grain sorghum fodder or ensile vegetation within the application area.

**Hooded Sprayer**

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

**RESTRICTIONS:**
• Grain sorghum must be at least 12 inches tall, measured without extending leaves.
• Do not graze or feed grain sorghum forage or fodder following application of this product using a hooded sprayer.
• Do not apply more than 32 fluid ounces of this product per acre per hooded sprayer application and no more than 96 fluid ounces per acre per year total.

**Preharvest**

**USE INSTRUCTIONS:** Up to 64 fluid ounces of this product per acre may be applied after sorghum grain has reached 30 percent moisture or less. As with other herbicides that cause sudden plant death, avoid preharvest application of this product on grain sorghum (milo) infected with charcoal rot as lodging can occur.

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

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

This product may be applied to grain sorghum stubble following harvest to control or suppress re-growth. Apply 32 fluid ounces of this product per acre for control or 24 fluid ounces per acre for suppression.

RESTRICTIONS:

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

8.6 Herbs and Spices

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

TYPES OF APPLICATION: Those listed in Section 8.0, plus Spot Treatment (peppermint and spearmint only); Wiper Applicator (peppermint and spearmint only)
PRECAUTIONS:
• This product could cause crop injury when applied prior to transplanting or direct-seeding crops into plastic mulch. Remove residual product from the plastic prior to planting with a single 0.5-inch application of water, either by natural rainfall or by irrigation. Ensure that the wash water flushes off the plastic mulch and does not enter the transplant holes.
• Application made at crop emergence will result in injury or death of emerged seedlings.

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

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

8.7 Oilseed Crops
LABELED CROPS: Borage; Buffalo gourd; Calendula; Canola; Castor oil plant; Chinese tallowtree; Crambe; Cuphea; Echium; Euphorbia; Evening primrose; Flax; Gold of pleasure; Hare’s ear mustard; Jojoba; Lesquerella; Meadowfoam; Milkweed; Mustard; Niger seed; Oil radish; Poppy seed; Rape; Rose hip; Safflower; Sesame; Stokes aster; Sunflower; Sweet rocket; Tallowwood; Tea oil plant; Vernonia

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

TYPES OF APPLICATION: Those listed in Section 8.0, plus Preharvest (except buffalo gourd)

USE INSTRUCTIONS: Refer to the following table for maximum application rates of this product for use in safflower, sunflower and all other oilseed crops listed in this section, if a preharvest application
is to be made. If a preharvest application is NOT to be made, the maximum application rate of this product for all preemergence, selective equipment and post-harvest applications in any oilseed crop listed in this section is limited only by the maximum of 8 quarts per acre per year. If a preharvest application is intended to be made to any crop listed in this section, except buffalo gourd, the maximum combined total of all preemergence and selective equipment applications is limited as indicated in the following table. See the “PRODUCT INFORMATION” section of this label for more information on Maximum Application Rates.

<table>
<thead>
<tr>
<th>Maximum Application Rates if a Preharvest Application is Made</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Safflower</strong></td>
</tr>
<tr>
<td>Combined total for all Preemergence and Selective Equipment applications</td>
</tr>
<tr>
<td>Preharvest application</td>
</tr>
<tr>
<td><strong>Sunflower</strong></td>
</tr>
<tr>
<td>Combined total for all Preemergence and Selective Equipment applications</td>
</tr>
<tr>
<td>Preharvest application</td>
</tr>
<tr>
<td><strong>All Other Oilseed Crops Listed (Except Buffalo Gourd)</strong></td>
</tr>
<tr>
<td>Combined total for all Preemergence and Selective Equipment applications</td>
</tr>
<tr>
<td>Preharvest application</td>
</tr>
</tbody>
</table>

**RESTRICTIONS:**
- Do not exceed a total application rate of 8 quarts of this product per acre per year.
- Preharvest application is not permitted on buffalo gourd.
Preplant, At-Planting, Preemergence

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

TANK MIXTURES: For sunflower, a tank mixture with pendimethalin may be applied before, during or after planting into conventionally tilled soil, a cover crop, established sod or previous crop residue. See the use instructions at the beginning of this section for important information on maximum application rates for preemergence and selective equipment applications of this product.

Selective Equipment

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

Preharvest (Except Buffalo Gourd)

USE INSTRUCTIONS: This product provides weed control and serves as a harvest aid when applied to a physiologically mature oilseed crop listed in this section. For safflower, up to 96 fluid ounces of this product may be applied per acre when seed has lost its opaque character, approximately 20 to 30 days after the end of flowering of the secondary branches. For sunflower, up to 32 fluid ounces of this product per acre may be applied when the backsides of sunflower heads are yellow and bracts are turning brown, and seed moisture content is less than 35 percent. For all other oilseed crops listed in this section (except buffalo gourd), up to 48 fluid ounces of this product per acre may be applied prior to harvest.

RESTRICTIONS:

• DO NOT MAKE A PREHARVEST APPLICATION if you have exceeded the maximum application rates for the combined total of all preemergence and selective equipment applications listed in the table at the beginning of this section.

• Make only 1 preharvest application of this product.
• Allow a minimum of 7 days between application and harvest or feeding to livestock.
• Pre-harvest Interval (PHI): Application must be made a minimum of 30 days prior to the planting of any crop not listed on this label.
• Preharvest application is not allowed on buffalo gourd or on Roundup Ready canola.

**Post-Harvest**

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

**RESTRICTIONS:**
• Do not exceed a total application rate of 8 quarts of this product per acre per year.
• Pre-harvest Interval (PHI): Allow a minimum of 7 days between application of this product and harvest or feeding of vegetation within the application area.
• Application must be made a minimum of 30 days prior to the planting of any crop not listed on this label.

**8.8 Soybean**

**TYPES OF APPLICATION:** Those listed in Section 8.0, plus Spot Treatment; Selective Equipment; Preharvest

For directions for use with Roundup Ready and specified glyphosate tolerant soybean and Roundup Ready 2 Yield soybean, see the “ROUNDUP READY AND SPECIFIED GLYPHOSATE TOLERANT CROPS” section of this label.

**Preplant, At-Planting, Preemergence**

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

acetochlor; alachlor; atrazine; carfentrazone-ethyl; chlorimuron ethyl; clethodim; clomazone; cloransulam-methyl; dimethenamid; dimethenamid-p; fluazifop-p-butyl; flufenacet; flumiclorac penty l ester; flumioxazin; fluthiacet-methyl; fomesafen; imazaquin; imazethapyr; lactofen; linuron; metolachlor; s-metolachlor; metribuzin; pendimethalin; pyroxasulfone; quizalofop P-ethyl; saflufenacil; sulfentrazone; tribenuron methyl; trifluralin

Aim, Assure II; Authority; Authority Assist; Authority First; Authority MAXX; Authority MTZ; Authority XL; Axiom; Blanket; Boundary; Cadet; Cloak; Cloak EX; Classic; Cobra; Command; Command Xtra; Dawn; Dual MAGNUM; Dual II MAGNUM; Fierce; Fierce XLT; FirstRate; Flexstar; Frontier; Fusion; Gangster; Gauntlet; Linex; Linuron; Lorox; Lorox Plus; Me-Too-Lachlor; Optill; Outlook; Panther SC; Pendimax; Phoenix; Prowl; Prowl H2O; Pursuit; Pursuit Plus; Python; Reflex; Resource; Rhythm; Rowel; Rowel FX; Scepter; Select; Select MAX; Sencor; Sharpen; Spartan; Squadron; Treflan; Valor XLT; Warrant

For hard-to-control annual weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply 32 fluid ounces of this product per acre in a tank mixture with one of the products listed. For other annual weeds listed on this label, apply 24 to 32 fluid ounces of this product per acre when weeds are less than 6 inches tall and 32 to 48 fluid ounces when weeds are over 6 inches tall.

Spot Treatment
USE INSTRUCTIONS: This product may be applied as a spot treatment prior to initial pod set in soybean. RESTRICTIONS: Do not apply this product to more than 10 percent of the total field area to be harvested.
Selective Equipment
USE INSTRUCTIONS: This product may be applied in soybean using a shielded sprayer, hooded sprayer, wiper applicator or sponge bar. See additional instructions on the use of selective equipment in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

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

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

RESTRICTIONS:
• Do not apply more than 5 quarts of this product per acre for preharvest application using ground application equipment or more than 64 fluid ounces per acre using aerial application equipment.
• Pre-harvest Interval (PHI): Allow a minimum of 7 days between application and harvest of soybean.
• If the preharvest application rate is greater than 32 fluid ounces per acre, do not graze or harvest hay or fodder within the application area for livestock feed within 25 days of application.
• If the application rate is 32 fluid ounces per acre or less, the grazing restriction is reduced to 14 days after application.

8.9 Sugarcane
TYPES OF APPLICATION: Those listed in Section 8.0, plus Spot Treatment

Preplant, At-Planting, Preemergence
USE INSTRUCTIONS: This product may be applied in or around sugarcane fields, or in fields prior to the emergence of plant cane.
RESTRICTION:
• 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 handheld sprayer and a spray-to-wet technique. Optimal results can be obtained on volunteer or diseased sugarcane when application is made when there are at least 7 new leaves. Avoid contact of this herbicide with healthy sugarcane plants as severe damage or destruction could result.

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

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

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

Fallow Treatment
USE INSTRUCTIONS: This product may be used as a replacement for tillage in fields that are lying fallow between sugarcane crops. This product may also be used to remove the last stubble of ratoon cane by applying 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 a minimum of 7 days after application before tillage. Aerial application of up to 96 fluid ounces per acre may be made onto fallow sites where there is sufficient buffer to prevent drift onto adjacent crops. Tank mixtures with 2,4-D or dicamba may be used. Ensure that the product used is labeled for this application in sugarcane. Read and follow label directions for all products in the tank mixture.
Sugarcane Ripening

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

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

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

**FLORIDA** – Apply 7 to 16 fluid ounces of this product per acre 3 to 5 weeks before harvest of LAST RATOON CANE ONLY.

**HAWAII** – Apply 12 to 28 fluid ounces of this product per acre 4 to 10 weeks before harvest.

**LOUISIANA** – Apply 5 to 16 fluid ounces of this product per acre 3 to 7 weeks before harvest of RATOON CANE ONLY.

**PUERTO RICO** – Apply 7 fluid ounces of this product per acre 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:**

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

- Rainfall within 6 hours after application could reduce the effectiveness of this product.
• Application to sugarcane grown for seed could result in a reduction in germination or vigor. To the extent consistent with applicable law, buyer and all users are responsible for any and all loss or damage in connection with the preharvest use of this product on sugarcane grown for seed.

RESTRICTIONS:
• Do not feed or graze sugarcane forage following application.
• Do not plant subsequent crops within 30 days after application of this product other than the following: alfalfa or other forage legumes, beans (all types), corn (all types), cotton, melons (all types), pasture grasses, peanuts, potatoes (Irish or sweet), sorghum (milo), soybeans, squash (all types) or wheat.
• Do not apply for better ripening to any crops other than sugarcane.
• Use of this product in any manner not consistent with this label could result in injury to persons, animals or crops, or have other unintended consequences.

8.10 Vegetable Crops
THIS SECTION PROVIDES DIRECTIONS FOR USE THAT APPLY TO ALL VEGETABLE CROPS LISTED IN THE FOLLOWING SECTIONS. SEE THE INDIVIDUAL CROP SECTIONS FOR SPECIFIC DIRECTIONS FOR USE, PREHARVEST INTERVALS, PRECAUTIONS AND RESTRICTIONS.

TYPES OF APPLICATION: Chemical Fallow; Preplant Fallow Beds; Preplant; At-Planting; Preemergence; Prior to Transplanting Vegetables; Hooded Sprayer in Row Middles; Shielded Sprayer in Row Middles; Wiper Applicator in Row Middles; Directed Application (non-bearing ginseng only); Wiper Applicator (carrot, rutabaga, sweet potato only); Post-Harvest

PRECAUTIONS:
• This product could cause crop injury when applied prior to transplanting or direct-seeding crops into plastic mulch. Remove residual product from the plastic with a single 0.5-inch application of water, either by natural rainfall or irrigation, prior to planting. Ensure that the wash water flushes off the plastic mulch and does not enter the transplant holes. Application of this product at crop emergence will result in injury or death to emerged seedlings.
• Avoid contact of this herbicide with foliage, green shoots or stems, bark, exposed roots (including those emerging from the plastic mulch), or fruit of crops, as severe crop injury or destruction could result. Transplanted seedlings coming into contact with freshly sprayed weeds could result in significant crop injury.

• Preemergence application must be made before the crop emerges from the soil to avoid severe crop injury. Apply before seed germination in coarse sandy soils to further minimize the risk of crop injury.

• In crops with vines, make hooded sprayer, shielded sprayer and wiper applications in row middles prior to vine development, otherwise severe crop injury or destruction could result.

RESTRICTIONS:

• Pre-harvest Interval (PHI): Unless otherwise directed, application using selective equipment, including wiper applicators and hooded sprayers, must be made a minimum of 14 days prior to harvest.

• Post-harvest and fallow applications must be made a minimum of 30 days prior to the planting of any crop not listed on this label.

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

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

Bulb Vegetables
Labeled Crops: All cultivars, varieties and/or hybrids of Chive (including Chinese); Daylily; Elegans hosta; Fritillaria; Garlic (including great-headed, serpent); Kurrat; Leek (including lady’s, wild); Onion (including Beltsville bunching, bulb, Chinese, fresh, green, macrostem, pearl, potato, tree, Welsh); Shallot
Cucurbit Vegetables and Fruits

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

RESTRICTION:

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

Leafy Vegetables

LABELED CROPS: Amaranth (Chinese spinach); Arugula (roquette); Beet greens; Cardoon; Celery; Chinese celery; Celtuce; Chaya; Chervil; Edible-leaved chrysanthemum; Garland chrysanthemum; Corn salad; Cress (garden, upland); Dandelion; Dock (sorrel); Dokudami; Endive (escarole); Florence fennel; Gow kee; Lettuce (head, leaf); Orach; Parsley; Purslane (garden, winter); Radicchio (red chicory); Rhubarb; Spinach; New Zealand spinach; Vine spinach; Swiss chard; Watercress (upland); Water spinach

RESTRICTION:

- For watercress, allow a minimum of 3 days between application and seeding.
- Do not apply this product during the period between seeding and emergence.

Fruiting Vegetables

LABELED CROPS: All cultivars, varieties and/or hybrids of Eggplant (including African, pea, scarlet); Cocona; Garden huckleberry; Goji berry; Groundcherry (Physalis spp.); Martinynia; Naranjilla; Okra; Pepino; Pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); Roselle; Sunberry; Tomatillo; Tomato
RESTRICTIONS:

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

**Legume Vegetables (Succulent or Dried)**

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

TYPES OF APPLICATION: Those listed in Section 8.0, plus Spot Treatment (dry beans, peas, lentils chickpeas only); Preharvest (dry beans, peas, lentils chickpeas only)

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

USE INSTRUCTIONS: This product may be applied as a spot treatment to control troublesome weeds such as Canada thistle, quackgrass, mayweed (dog fennel) and milkweed in dry beans, peas, lentils and chickpeas. Apply up to 32 fluid ounces of this product per acre in dry beans, or up to 96 fluid ounces per acre in dry peas, lentils and chickpeas, in 10 to 20 gallons of water using ground application equipment, or use a 2-percent solution in a handheld sprayer. For optimal results, apply at or beyond the bud stage of growth.

RESTRICTIONS:

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

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

USE INSTRUCTIONS: This product may be applied over the top of dry beans, peas, lentils and chickpeas prior to harvest. Apply up to 32 fluid ounces of this product per acre in dry beans, or up to 96 fluid ounces per acre in dry peas, lentils and chickpeas, in 3 to 20 gallons of water per acre at the hard dough stage of the legume seed (30 percent grain moisture or less).

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

Root and Tuber Vegetables

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

TYPES OF APPLICATION: Those listed in Section 8.0, plus Directed Application (non-bearing ginseng only); Wiper applicator (carrot, rutabaga, sweet potato only)
Directed Application in Ginseng (Non-Bearing Only)

USE INSTRUCTIONS: This product may be applied for weed control in established non-bearing ginseng using a boom sprayer, CDA, shielded sprayer, wiper applicator, handheld or backpack wand, lance, or orchard gun. See additional use instructions in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

PRECAUTION:

• Control the application so as to not allow any contact of this product with the ginseng plant. Droplets, mist, foam or splatter of the herbicide solution settling onto desirable vegetation could result in discoloration, stunting or destruction.

RESTRICTION:

• Pre-harvest Interval (PHI): Application must be made a minimum of one year prior to ginseng harvest.

Wiper Applicator (Carrot, Rutabaga and Sweet Potato Only)

USE INSTRUCTIONS: A 33-percent solution of this product by volume in water may be applied using a wiper applicator over the top of carrot, rutabaga and sweet potato for the control of tall weeds. See additional use instructions for wiper applicators in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

RESTRICTIONS:

• For carrot, a maximum of two wiper or sponge bar applications may be made a minimum of 60 days prior to harvest following the first application and 7 days prior to harvest following the second application or if only one wiper application is made over the top of the carrot crop.

• For rutabaga, allow a minimum of 14 days between application and harvest.

• For sweet potato, a maximum of five wiper or sponge bar applications may be made with a minimum of 14 days between applications and a minimum of 7 days prior to harvest.
8.11 Miscellaneous Crops

LABELED CROPS: Aloe vera; Asparagus; Bamboo shoots; Globe artichoke; Okra; Peanut; Pineapple; Sugarbeet

TYPES OF APPLICATION: Those listed in Section 8.0, plus Spot Treatment (asparagus)

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

PRECAUTIONS:

• Preemergence application must be made before the crop emerges from the soil to avoid severe crop injury. Apply before seed germination in coarse sandy soils to further minimize the risk of crop injury.

• In crops with vines, apply this product in row middles using a hooded sprayer, shielded sprayer or wiper applicator prior to vine development, otherwise severe crop injury or destruction could result.

Spot Weed Control, Site Preparation

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

PRECAUTION:

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

RESTRICTIONS:

• Allow a minimum of 21 days between residue removal and transplanting.

• Do not apply this product within 7 days prior to emergence of the first asparagus spears.

• Do not feed or graze pineapple forage from within the application area.
Spot Treatment (Asparagus)

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

RESTRICTIONS:
• Do not apply this product to more than 10 percent of the total field area to be harvested.
• Pre-harvest Interval (PHI): Do not harvest asparagus within 5 days of a spot treatment application.

Post-Harvest in Asparagus

USE INSTRUCTIONS: This product may be applied for weed control after the last harvest of asparagus and all spears have been removed. If spears are allowed to re-grow, delay application until ferns have developed and make the application as a directed or shielded spray in order to avoid contact of this product with ferns, stems or spears. See additional use instructions in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

PRECAUTION:
• Direct contact of this product with asparagus could result in serious crop injury.

9.0 TREE, VINE AND SHRUB CROPS

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

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

USE INSTRUCTIONS: Unless specifically prohibited in the individual crop sections that follow, this product may be applied using a boom sprayer, controlled droplet applicator (CDA), shielded sprayer, wiper applicator, handheld or backpack sprayer, lance or orchard gun, in middles (between rows of trees, vines or bushes), strips (within rows of trees, vines or bushes), and for weed control or
perennial grass suppression in established tree fruit and nut groves, orchards and vineyards. It may also be used for site preparation prior to planting or transplanting these crops.

Apply 16 fluid ounces to 5 quarts of this product per acre as directed in the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL WEEDS RATE SECTION” of this label. Use the higher application rate within a given range when weeds are stressed, growing in dense populations or greater than 12 inches tall. Application may be repeated as needed up to a maximum of 10.6 quarts of this product per acre per year. See the “PRODUCT INFORMATION” section of this label for more information on Maximum Application Rates.

PRECAUTIONS:

- Use extreme care to avoid contact of this herbicide solution, spray, drift or mist with foliage or green bark of trunk, branches, suckers, fruit or other parts of desirable trees, canes and vines. Avoid application when recent pruning wounds or other mechanical injury have occurred. Contact of this product with other than matured brown bark could result in serious crop damage or destruction. Only shielded or directed sprayers may be used in crops where the potential for crop contact is high, and then only where there is sufficient clearance.

- For application in strips (within rows of trees), only selective equipment (directed sprayer, hooded sprayer, shielded sprayer or wiper applicator) may be used in order to minimize the potential for overspray or drift of this product onto the crop.

- For berry crops, hooded sprayers must be fully enclosed including top, sides, front and back. Only wiper applicators or shielded sprayers capable of preventing all contact of this product with the crop may be used.

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

RESTRICTION:

- Allow a minimum of 3 days between application of this product and transplanting.
Middles (between rows)

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

TANK MIXTURES: A tank mixture of this product with Goal 2XL may be applied for annual weed control between rows (middles) of a variety of tree and vine crops when weeds are stressed or growing in dense populations. Application of 16 to 32 fluid ounces of this product plus 3 to 12 fluid ounces of Goal 2XL per acre will control annual weeds with a maximum height or length of 6 inches, including crabgrass, common groundsel, junglerice, common lambsquarters, redroot pigweed, London rocket, common ryegrass, shepherd’s-purse, annual sowthistle, filaree (suppression), horseweed/marestail, stinging nettle and common purslane (suppression). This tank-mix will also control common cheeseweed (malva) or hairy fleabane with a maximum height or length of 3 inches.

This product may also be applied to row middles in tank mixtures with the following products.

2,4-D; bromacil; clethodim; diuron; fluazifop-P-butyl; flumioxazin; glufosinate-ammonium; indaziflam; napropamide; norflurazon; oryzalin; oxyfluorfen; pendimethalin; penoxsulam; pyraflufen ethyl; rimsulfuron; saflufenacil; sethoxydim; simazine; thiazopyr

Alion; Devrinol 50-DF; Direx 4L; Dri-Clean; Fusilade DX; Goal 2XL; GoalTender; Grapple; Karmex DF; Karmex II DF; Matrix FNV; Orchard Master CA; Pindar GT; Poast; Prowl; Prowl H2O; Princep Caliber 90; Rely 200; Cheetah; Select Max; Simazine 4L; Simazine 80W; Sim-Trol 4L; Solicam DF; Surflan AS; Surflan 75W; Treevix Powered by Kixor; Tuscany; Tuscany SC; Venue; Visor 2E, Weedar 64

Ensure that the product used is labeled for application within the crop being grown. Read and follow label directions for all products in the tank mixture.

Strips (within rows)

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

RE restrictions: Do not apply these tank mixtures in Puerto Rico.

**Perennial Grass Suppression**

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

For suppression of tall fescue, fine fescue, orchardgrass and quackgrass, apply 8 fluid ounces of this product in 10 to 20 gallons of water per acre.

For suppression of Kentucky bluegrass covers, apply 6 fluid ounces of this product per acre. Do not add ammonium sulfate to the spray mix.

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

For suppression of vegetative growth and seedhead inhibition of bahiagrass for approximately 45 days, apply 6 fluid ounces of this product in 10 to 25 gallons of water per acre 1 to 2 weeks after full green-up or after mowing to a uniform height of 3 to 4 inches prior to seedhead emergence.

For suppression for up to 120 days, apply 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 two applications per year.
For burndown of bermudagrass, apply 32 to 64 fluid ounces of this product in 3 to 20 gallons of water per acre. Make this application only if a reduction of the bermudagrass stand can be tolerated. When burndown is required prior to harvest, make the application a minimum of 21 days prior to harvest to allow sufficient time for burndown to occur.

For suppression of bermudagrass, apply 6 to 16 fluid ounces of this product per acre east of the Rocky Mountains and 16 fluid ounces west of the Rocky Mountains in a total spray volume of 3 to 20 gallons per acre no sooner than 1 to 2 weeks after full green-up. If the bermudagrass is mowed prior to application, maintain a minimum of 3 inches in height. Sequential applications may be made when re-growth occurs and bermudagrass injury and stand reduction can be tolerated. East of the Rocky Mountains, apply 6 to 10.6 fluid ounces of this product per acre in shaded conditions or where a lesser degree of suppression is desired.

**Cut Stump Application**

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

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

**Fruit Trees:** Apple; Apricot; Cherry (swee, 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)

**USE INSTRUCTIONS:** Cut the tree close to the soil surface and immediately apply a 50- to 100-percent (undiluted) solution of this product to the freshly cut surface using application equipment capable of covering the entire cambium. A delay in application could result in reduced performance. For optimal results, cut the tree during period of active growth and full leaf expansion and apply this product.
PRECAUTION:
- **DO NOT MAKE A CUT STUMP APPLICATION WHEN THE ROOTS OF ADJACENT DESIRABLE TREES MIGHT BE GRAFTED TO THE ROOTS OF THE CUT STUMP, AS INJURY COULD OCCUR IN THE ADJACENT TREES.** Some sprouts, stems or trees can share a common root system. Adjacent trees having a similar age, height and spacing could be an indicator of a shared root system. Whether grafted or shared, injury is likely to occur to adjacent stems or trees when this product is applied to one or more trees sharing a common root system.

### 9.1 Berry and Small Fruit Crops

**Labeled Crops:** All cultivars, varieties and/or hybrids of Amur River grape; Aronia berry; Bayberry; Bearberry; Bilberry; Blackberry (including Andean blackberry, arctic blackberry, bingleberry, black satin berry, boysenberry, brombeere, California blackberry, Cherokee blackberry, cheruberry, Cheyenne blackberry, common blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, evergreen blackberry, Himalayaberry, hullberry, lavacaberry, loganberry, lowberry, Lucretiaberry, mammoth blackberry, marionberry, mora, mures de ronce, nectarberry, Northern dewberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, Southern dewberry, tayberry, youngberry, zarzamora); Blueberry (highbush, lowbush); Buffaloberry; Che; Chilean guava; Chokecherry; Cloudberry; Cranberry (including highbush); Currant (black, Buffalo, red, native); Elderberry; European barberry; Gooseberry; Grape; Honeysuckle (edible); Huckleberry; Jostaberry; Juneberry (Saskatoon berry); Kiwifruit (fuzzy, hardy); Ligonberry; Maypop; Mountain pepper berries; Mulberry; Muntries; Partridgeberry; Phalsa; Pincherry; Raspberry (black, red, wild); Riberry; Salal; Schisandra berry; Sea buckthorn; Serviceberry; Strawberry

**Types of Application:** Those listed in TREE, VINE AND SHRUB CROPS section

**Precautions:**
- To avoid damage, spray solutions of this product must not be allowed to contact desirable vegetation, including green shoots, canes or foliage.
- In the northeast and Great Lakes regions, apply this product in grape vineyards prior to the end of the bloom stage in order to avoid crop injury, or apply using a shielded sprayer or wiper applicator.
• USE THIS PRODUCT WITH EXTREME CARE AROUND RASPBERRY, AS SERIOUS CROP DAMAGE CAN OCCUR IF ANY PART OF THE VINE COMES INTO CONTACT WITH THIS PRODUCT.

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

RESTRICTIONS:

• Allow a minimum of 3 days between application of this product and transplanting.

• Pre-harvest Interval (PHI): Allow a minimum of 30 days between application and harvest of cranberries or the planting of any crop not listed on this label.

• Pre-harvest Interval (PHI): Allow a minimum of 14 days between application and harvest for all other berry and small fruit crops listed here.

• Do not use selective equipment in kiwi.

Spot Treatment

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

For control of weeds growing in dry ditches (interior and perimeter) of cranberry production areas, drop water level to remove standing water in ditches and apply a 1.0- to 2.2-percent solution of this product with a handheld sprayer to adequately wet the vegetation only; do not spray to the point of runoff. To achieve maximum weed control in dry ditches, apply this product within 1 day after water drawdown to ensure application to actively growing weeds and allow a minimum of 2 days after application before reintroduction of water.

RESTRICTIONS:

• Pre-harvest Interval (PHI): Allow a minimum of 30 days between spot treatment application and harvest of cranberries.

• Do not apply directly to water.

• Use nozzles that produce medium- to large-sized droplets to minimize spray drift and avoid crop injury.
Post-Harvest Application in Cranberry Production

USE INSTRUCTIONS: This product may be applied for weed control after the harvest of berries and small fruits listed in this section. In cranberry bogs, apply this product after cranberry vines are dormant (after they have turned red) using a handheld sprayer, wiper applicator or any other appropriate application equipment listed in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label. With a handheld sprayer, apply a 0.5- to 1-percent solution of this product to adequately wet the vegetation only; do not spray to the point of runoff. With a handheld boom sprayer, apply 64 to 128 fluid ounces of this product per acre.

PRECAUTIONS:

• Even though vines appear dormant, contact of this product with desirable vegetation could result in damage or severe plant injury.

• Cranberry plants that are directly sprayed could be killed.

RESTRICTIONS:

• Apply this product only after cranberries have been harvested.

• Do not apply to more than 10 percent of the total bog.

• Allow a minimum of 6 months between post-harvest application and the next harvest of cranberries.

• Do not apply using aerial application equipment.

• Do not apply directly to water.

9.2 Citrus Fruit Crops

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

TYPES OF APPLICATION: Those listed in Section TREE, VINE AND SHRUB CROPS section
USE INSTRUCTIONS: The following use instructions pertain to application in Florida and Texas only. For burndown or control of the weeds listed below, apply this product at the specified rate in 3 to 30 gallons of water per acre. Where weed foliage is dense, use 10 to 30 gallons of water per acre.

To control goatweed, apply 64 to 96 fluid ounces of this product in 20 to 30 gallons of water per acre when plants are actively growing. Apply 64 fluid ounces per acre when plants are less than 8 inches tall and 96 fluid ounces per acre when plants are greater than 8 inches tall. If goatweed is greater than 8 inches tall, the use of this product in a tank mixture with Krovar I or Karmex could improve weed control. Refer to the individual product labels for specific crops, rates, geographic restrictions and precautionary statements.

<table>
<thead>
<tr>
<th>WEED SPECIES</th>
<th>Level of Perennial Weed Control at Various Application Rates (amount of this product per acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 quart</td>
</tr>
<tr>
<td>Bermudagrass</td>
<td>B</td>
</tr>
<tr>
<td>Guineagrass</td>
<td>B</td>
</tr>
<tr>
<td><strong>Texas and Florida Ridge</strong></td>
<td>–</td>
</tr>
<tr>
<td><strong>Florida Flatwoods</strong></td>
<td>B</td>
</tr>
<tr>
<td>Paragrass</td>
<td>B</td>
</tr>
<tr>
<td>Torpedograss</td>
<td>S</td>
</tr>
</tbody>
</table>

S = Suppression, PC = Partial Control, B = Burndown, C = Control

RESTRICTIONS:

- Pre-harvest Interval (PHI): Allow a minimum of 1 day between application and harvest of citrus fruit crops.
- For citron groves, apply as a directed spray only.
9.3 Pome Fruit Crops
LABELED CROPS: All cultivars, varieties and/or hybrids of Apple; Azarole; Crabapple; Loquat; Mayhaw; Medlar; Pear (including Asian pear); Quince (including Chinese and Japanese quince); Tejocote
TYPES OF APPLICATION: Those listed in TREE, VINE AND SHRUB CROPS section
RESTRICTION:
- Pre-harvest Interval (PHI): Allow a minimum of 1 day between application and harvest of pome fruit.

9.4 Stone Fruit Crops
LABELED CROPS: Apricot, Cherry (sweet, tart); Nectarine; Olive; Peach; Plum/Prune (all types); Plumcot
TYPES OF APPLICATION: Those listed in TREE, VINE AND SHRUB CROPS section
PRECAUTIONS:
- Avoid application near trees with recent pruning wounds or other mechanical injury.
- Apply only near trees that have been planted in the orchard for a minimum of 2 years.
- ENSURE THAT NO PART OF A PEACH TREE IS CONTACTED WITH OVERSPRAY OR DRIFT OF THIS PRODUCT.
RESTRICTIONS:
- Pre-harvest Interval (PHI): Allow a minimum of 17 days between application and harvest of stone fruit.
- In olive groves, apply as a directed spray only.
- Remove suckers and low-hanging limbs a minimum of 10 days prior to application.

9.5 Tree Nut Crops
LABELED CROPS: Almond; Beechnut; Betelnut; Brazil nut; Butternut; Cashew; Chestnut; Chinquapin; Coconut; Filbert (hazelnut); Hickory nut; Macadamia; Pecan; Pine nut; Pistachio; Walnut (black, English)
TYPES OF APPLICATION: Those listed in TREE, VINE AND SHRUB CROPS section
RESTRICTIONS:
- Pre-harvest Interval (PHI): Allow a minimum of 3 days between application and harvest of tree nuts, except coconut.
- Allow a minimum of 14 days between application and harvest of coconut.

9.6 Tropical and Subtropical Trees and Fruit Crops

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

Types of Application: Those listed in TREE, VINE AND SHRUB CROPS section, and as a Bananacide (banana only)

Restrictions:
- Pre-harvest Interval (PHI): Allow a minimum of 1 day between application and harvest in banana, coffee, guava, papaya, and plantain crops.
- Pre-harvest Interval (PHI): Allow a minimum of 14 days between application and harvest of all other tropical and subtropical tree fruit listed here.
- In coffee and banana, delay application until 3 months after transplanting to allow the new coffee or banana plant to become established.

Bananacide (Banana Only)

Use Instructions: This product may be used to destroy banana plants infected with the Banana Bunchy Top Virus, as well as non-infected banana plants, in order to establish a disease-free buffer around a plantation. Remove all fruit from the plants within the area prior to treatment. Inject 0.04 fluid ounce (1.0 milliliter) of this concentrated product (undiluted) for every 2 to 3 inches of pseudostem diameter of the banana plant to be controlled. Make the injection at least one foot
above the ground, except for very small plants, which can be injected vertically into the top. Any subsequent re-growth must also be destroyed. Mechanically destroy all plants and mats (or units) within a 4-foot radius around a treated mat.

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

RESTRICTIONS:

• Do not apply more than 0.50 fluid ounce (15 milliliters) of this product per mat (or unit).
• Do not harvest any fruit or plant material from treated mats (or units) following injection.
• Do not allow livestock to consume treated plant material.
• Following transplant of new banana plants into treated areas, allow plants to become established for 3 months before applying this product for weed control.

9.7 Vine Crops
LABELED CROPS: Hops; Passion fruit TYPES OF APPLICATION: Those listed in TREE, VINE AND SHRUB CROPS section
USE INSTRUCTIONS: Apply this product for weed control only when green shoots, canes or foliage are not in the spray zone.

RESTRICTION:

• Pre-harvest Interval (PHI): Allow a minimum of 14 days between application and harvest of vine crops.

9.8 Miscellaneous Tree Food Crops
LABELED CROPS: Cactus (all, including prickly pear, dragon fruit); Palm TYPES OF APPLICATION: Those listed in TREE, VINE AND SHRUB CROPS section
9.9 Non-Food Tree Crops
Labeled Crops: Pine; Poplar; Eucalyptus; Christmas trees; all other non-food tree crops
Types of Application: Those listed in TREE, VINE AND SHRUB CROPS section

Precautions:
- Avoid contact of spray, drift or mist of this product with foliage or green bark of established Christmas trees and other pine trees.
- Desirable plants can be protected from the spray solution by using shields or coverings of impermeable materials.

Restrictions:
- DO NOT apply this product as a broadcast application over the top of plantations or tree crops.

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

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

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

10.0 Pasture Grasses, Forage Legumes and Rangeland
Use Instructions: Refer to the “ANNUAL WEEDS RATE SECTION” and “PERENNIAL WEEDS RATE SECTION” of this label for application rates of this product for specific weeds. When applied as directed, this product will control those annual and perennial grasses and broadleaf weeds listed. Application rates specified on this label for hard-to-control weeds, or those specified on separate supplemental labeling for this product, supersede rates listed in the “ANNUAL WEEDS RATE
SECTION,” “PERENNIAL WEEDS RATE SECTION” and “WOODY BRUSH, TREES AND VINES RATE SECTION” of this label. Additional information on hard-to-control weeds can be found on Fact Sheets published for this product.

10.1 Alfalfa, Clover and Other Forage Legumes

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

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

For directions for use with Roundup Ready alfalfa, see the “ROUNDUP READY AND SPECIFIED GLYPHOSATE TOLERANT CROPS” section of this label.

Preplant, At-Planting, Preemergence

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

RESTRICTION:

• Remove domestic livestock before application.

Spot Treatment, Wiper Applicator

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

RESTRICTIONS:

• For spot treatment and use with a wiper applicator, apply in areas where the movement of domestic livestock can be controlled.

• Remove domestic livestock before application and wait a minimum of 3 days after application before grazing livestock or harvesting.

• Do not apply this product to more than 10 percent of the total field area at any one time.
Weed Control in Dormant Alfalfa

USE INSTRUCTIONS: This product will control or suppress many weeds, including quackgrass, downy brome and cheatgrass in dormant alfalfa. Apply 8 to 12 fluid ounces of this product per acre in the spring when alfalfa is dormant, after spring temperatures have warmed enough to encourage weed growth, but prior to initiation of trifoliate leaf expansion of the alfalfa crop. Application made after expansion of the first trifoliate leaf will cause growth reduction and reduced crop yield.

PRECAUTIONS:

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

RESTRICTIONS:

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

Preharvest (Except Kenaf and Leucaena), Stand Removal

USE INSTRUCTIONS: This product may be applied as a broadcast application prior to harvest (except in kenaf and leucaena) in declining stands or in any stand where severe crop injury or destruction is acceptable, or to remove an established stand of any forage legume listed in this section. Application may be made at any time of the year to control annual and perennial weeds, including quackgrass. For control of quackgrass, apply in the spring, late-summer or fall when quackgrass is actively growing. Application for quackgrass control must be followed by deep tillage for complete control. If the crop is to be harvested or grazed by livestock, apply up to 64 fluid ounces of this product per acre in alfalfa and up to 48 fluid ounces per acre in all other legumes listed in this section. For complete removal of established stands of clover, it might be necessary to use a higher application rate, as listed in the “PERENNIAL WEEDS RATE SECTION” of this label.
PRECAUTIONS:

- This application can destroy an alfalfa stand and severely injure or destroy other legume crops listed, such as clover. Preharvest application on alfalfa grown for seed could result in a reduction in germination or vigor.
- To the extent consistent with applicable law, buyer and all users are responsible for any and all loss or damage in connection with the preharvest use of this product on alfalfa grown for seed.

RESTRICTIONS:

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

<table>
<thead>
<tr>
<th>Crop</th>
<th>Maximum Single Preharvest Application Rate (per acre)</th>
<th>Minimum Interval Between Application and Harvest or Livestock Grazing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alfalfa</td>
<td>64 fluid ounces</td>
<td>36 hours</td>
</tr>
<tr>
<td>All other legumes listed</td>
<td>48 fluid ounces</td>
<td>3 days</td>
</tr>
</tbody>
</table>

Plant Back Interval (PBI): Crops listed on this label may be planted into the application area at any time; all other crops may be planted 30 days after application.

10.2 Conservation Reserve Program (CRP)

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

USE INSTRUCTIONS: Apply this product to suppress competitive growth and seed production of undesirable vegetation on CRP land. Application may be made using a wiper applicator to control tall weeds, or as a broadcast application or spot treatment to dormant CRP grasses. For selective weed control using broadcast application equipment, apply 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 application may be made after desirable perennial grasses have reached dormancy.

PRECAUTION:

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

RESTRICTIONS:

- Do not apply more than 3 quarts of this product per acre per year onto CRP land.
- No waiting period is required between application and grazing or harvesting for feed.

Renovation (Rotating Out of CRP), Site Preparation

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

RESTRICTIONS:

- Plant Back Interval (PBI): Crops listed on this label may be planted into the area at any time; all other crops may be planted 30 days after application.

10.3 Grass Seed and Sod Production

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

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

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

Apply before, during, or after planting, or for renovation purposes. Where existing vegetation is growing under mowed turfgrass management, apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the herbicide spray. For maximum control of existing vegetation, delay planting until determining if any re-growth of underground plant parts will occur. Where repeat applications are necessary, sufficient re-growth must be attained prior to application. For warm-season grasses, such as bermudagrass, summer or fall application provides optimal control. Broadcast application of this product may be used to control sod remnants or other unwanted vegetation after sod is harvested. Application rates of up to 5 quarts per acre may be used to totally remove an established stand of hard-to-kill grass species.

RESTRICTIONS:

* If application rate is 3 quarts of this product per acre or less, no waiting period between application and feeding or livestock grazing is required.
* If the rate is greater than 3 quarts per acre, remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.
* Plant Back Interval (PBI): Crops listed on this label may be planted into the area at any time; all other crops may be planted 30 days after application.

Shielded Sprayer

USE INSTRUCTIONS: Apply 32 to 96 fluid ounces of this product in 10 to 20 gallons of water per acre using a shielded sprayer to control weeds between grass seed rows. Uniform planting in
straight rows will aid shielded sprayer application. Optimal results can be obtained when the grass seed crop is small enough to easily pass by the protective shields. See additional instructions on the use of shielded sprayers in the “APPLICATION EQUIPMENT AND TECHNIQUES” section of this label.

PRECAUTIONS: Contact of this product in any manner to any vegetation to which application is not intended could cause damage.

**Wiper Applicator**

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

PRECAUTION:

- Droplets, mist, foam or splatter of the herbicide solution settling onto desirable vegetation could result in discoloration, stunting or destruction.

**Spot Treatment**

USE INSTRUCTIONS: Apply a 1.0 to 1.5- percent solution of this product using a handheld sprayer to control weeds within established vegetation prior to heading of grasses grown for seed or to control sod remnants or other unwanted vegetation after sod is harvested.

PRECAUTIONS:

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

**Creating Rows in Annual Ryegrass**

USE INSTRUCTIONS: Use low-pressure nozzles or drop nozzles designed to target the application over a narrow band. Set nozzle height to establish the desired row spacing and apply 16 to 32 fluid ounces of this product per acre. Optimal results can be obtained when application is made before ryegrass reaches 6 inches in height. Use a higher application rate within this range when ryegrass is greater than 6 inches in height.
PRECAUTIONS:
- Take care not to spray or allow spray to drift outside target area in order to avoid unwanted crop destruction.
- To the extent consistent with applicable law, grower assumes all responsibility for crop losses resulting from misapplication of this product.

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

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

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

RESTRICTIONS:
- If application rates total 3 quarts of this product per acre or less, no waiting period between application and feeding or livestock grazing is required.
- If the rate is greater than 3 quarts per acre, remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.
- Plant Back Interval (PBI): Crops listed on this label may be planted into the area at any time; all other crops may be planted 30 days after application.

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

RESTRICTIONS:

- For spot treatment or use with a wiper applicator at rates of 3 quarts per acre or less, this product may be applied over the entire pasture or any portion of it.
- At rates above 3 quarts per acre, this product may be applied over no more than 10 percent of the total pasture at any one time.
- Application may be repeated on the same area at 30-day intervals.

**Postemergence Weed Control (Broadcast Application)**

**USE INSTRUCTIONS:** This product may be applied in pastures to suppress competitive growth and seed production of annual weeds and other undesirable vegetation. For selective weed control using broadcast application equipment, apply 12 to 16 fluid ounces of this product per acre in early-spring before desirable perennial grasses break dormancy and initiate green growth. Late-fall application may be made after desirable perennial grasses have reached dormancy.

**PRECAUTIONS:**

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

**RESTRICTIONS:**

- No waiting period is required between application and grazing or harvesting for feed.
- Do not apply more than 3 quarts of this product per acre per year onto pasture grasses except for renovation use as described on this label.
- If replanting is needed due to severe stand reduction, wait a minimum of 30 days after application before planting any crop not listed on this label.
10.5 Rangeland

TYPES OF APPLICATION: Postemergence

USE INSTRUCTIONS: This product will control or suppress many annual weeds growing on perennial cool- and warm-season grass rangeland. Slight discoloration of the desirable grasses could occur, but will re-green and resume growing under moist soil conditions as effects of this product wear off. Preventing seed production is critical to the control of invasive annual grassy weeds on rangeland. Follow-up applications in sequential years can be used to eliminate most of the viable seeds. Delay grazing of the area after application of this product to allow desirable perennials to grow, flower and reseed the area.

Apply 12 to 16 fluid ounces of this product per acre to control or suppress many weeds, including downy brome, cheatgrass, cereal rye and jointed goatgrass on rangeland. Apply when most mature brome plants are in early flower and before the plants, including seedheads, turn color. Allowing for secondary weed flushes to occur after spring rains further depletes the seed reserve and encourages perennial grass conversion on weedy sites. Apply this product in the fall in areas where spring moisture is normally limited and fall germination allows for good weed growth and weed seed depletion.

For control of medusahead, apply 16 fluid ounces of this product per acre at the 3-leaf stage. Delaying application beyond this stage will result in reduced or unacceptable control. Controlled burning prior to application can be useful in eliminating the thatch layer produced by slowly decaying culms. Allow new growth to occur before applying this product after a burn. Repeat applications in subsequent years are necessary to eliminate the seedbank before re-establishing desirable perennial grasses in medusahead-dominated rangeland.

RESTRICTIONS:

• Do not apply more than 3 quarts of this product per acre per year on rangeland.
• Do not add ammonium sulfate to the spray mixture when applying this product on rangeland grasses.
• No waiting period between application and feeding or livestock grazing is required.
11.0 ROUNDUP READY AND SPECIFIED GLYPHOSATE TOLERANT CROPS

ROUNDUP READY AND SPECIFIED GLYPHOSATE TOLERANT* CROPS CONTAIN A PATENTED GENE THAT PROVIDES TOLERANCE TO GLYPHOSATE, THE ACTIVE INGREDIENT IN THIS PRODUCT. THIS PRODUCT WILL CAUSE SEVERE CROP INJURY OR DESTRUCTION AND YIELD LOSS IF APPLIED TO CROPS THAT ARE NOT GLYPHOSATE TOLERANT. AVOID CONTACT OF THIS PRODUCT WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, OR ANY DESIRABLE PLANTS THAT DO NOT CONTAIN A GLYPHOSATE-TOLERANCE GENE, AS SEVERE PLANT INJURY OR DESTRUCTION WILL RESULT.

Roundup Ready and specified glyphosate tolerant crops must be purchased from an authorized licensed seed supplier.

*Contact the seed manufacturer, seed distributor or seed supplier to determine if the seed variety is designated and supported as glyphosate tolerant.

Crops not containing a gene that expresses glyphosate tolerance will not be tolerant to Nufarm Credit Herbicide and severe crop injury and/or death may occur. Do not allow spray to contact foliage or green tissue of desirable vegetation other than crops tolerant to the active ingredient in Nufarm Credit Herbicide.

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

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

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

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

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

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

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

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

Ammonium sulfate may be added to spray solutions of this product for application to Roundup Ready and specified glyphosate tolerant crops. Refer to the “MIXING” section of this label for instructions on the use of ammonium sulfate.

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

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

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

11.1 Roundup Ready Alfalfa

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

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

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

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

Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting Roundup Ready alfalfa.
Postemergence (In-crop)

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

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

New Stand Establishment (Seeding Year) – Due to the biology and breeding constraints of alfalfa, up to 10 percent of the seedlings might not contain a Roundup Ready gene and will not survive after the first application of this product. To eliminate the undesirable effects of stand gaps created by this loss of plants, make a single application of at least 32 fluid ounces of this product per acre at or before the 4 trifoliate growth stage. Refer to the following table for application rates during stand establishment (seeding year).

<table>
<thead>
<tr>
<th>NEW STAND ESTABLISHMENT (Seedling Years) Application Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior to First Cutting</td>
</tr>
<tr>
<td>From emergence up to 4 trifoliate leaves</td>
</tr>
<tr>
<td>From 5 trifoliate leaves up to 5 days before first cutting</td>
</tr>
<tr>
<td>After First Cutting</td>
</tr>
<tr>
<td>In-crop application, per cutting, up to 5 days before cutting</td>
</tr>
</tbody>
</table>

TANK MIXTURES: Up to 64 fluid ounces of this product per acre may be applied postemergence (in-crop) over the top of Roundup Ready alfalfa in the seeding year in a tank-mix with the
following products after weeds have emerged, but before alfalfa growth or re-growth interferes with spray coverage of the target weeds. Ensure that the product used in the tank-mix is labeled for application postemergence (in-crop) to alfalfa. Read and follow label directions for all products in the tank mixture.

clethodim; imazamox; imazethapyr; sethoxydim; quizalofop p-ethyl
Assure II; Poast; Prism; Pursuit; Raptor; Select MAX

Pursuit or Raptor applied to seedling alfalfa could result in a temporary reduction in growth. Do not include crop oil concentrate or methylated seed oil in tank mixtures of this product with Pursuit or Raptor as unsatisfactory crop injury could result.

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

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

Actively growing alfalfa: For control of emerged annual grasses and broadleaf weeds when alfalfa is actively growing, this product may be applied at up to 64 fluid ounces per acre in a tank mixture with the following herbicides.

clethodim; imazamox; imazethapyr; sethoxydim; quizalofop p-ethyl
Assure II; Poast; Prism; Pursuit; Raptor; SelectMAX

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

Dormant Alfalfa: For control of emerged annual grasses and broadleaf weeds when alfalfa is dormant, this product may be applied at up to 64 fluid ounces per acre in a tank mixture with the following herbicides when daily temperatures remain above freezing.
imazamox; imazethapyr; metribuzin; pronamide; propyzamide
Kerb 50-W; Pursuit; Raptor; Sencor

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

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

RESTRICTIONS:
- Do not exceed 66 fluid ounces per acre for any single in-crop application of this product.
- Sequential applications of this product must be a minimum of 7 days apart.
- The combined total per year for all in-crop applications in both newly established (seeding year) and established stands (non seeding year) must not exceed 6 quarts (192 fluid ounces) per acre.
- Do not apply to frozen or snow covered ground. Remove domestic livestock before application.
- Wait a minimum of 5 days after application before grazing, or cutting and feeding of forage and hay.

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

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

USE INSTRUCTIONS: Refer to the following table for the maximum application rates for this product with spring varieties of Roundup Ready canola.
Preplant, At-Planting, Preemergence
USE INSTRUCTIONS: This product may be applied before, during or after planting Roundup Ready spring canola.

RESTRICTION:
• Maximum quantity of this product that may be applied for all preplant, at-planting and preemergence applications combined is 64 fluid ounces per acre per season.

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

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

Sequential Application – Apply 16 fluid ounces of this product per acre to 1- to 3-leaf canola followed by a sequential application at a minimum interval of 10 days, but no later than the 6-leaf stage. Sequential application works better for control of early emerging annual and perennial weeds, such as Canada thistle and quackgrass, or whenever more than one application is needed for acceptable weed control.

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

- No more than two in-crop (over-the-top) broadcast applications may be made from crop emergence through the 6-leaf stage of development and the total in-crop application must not exceed 32 fluid ounces of this product per acre.

- Pre-harvest Interval (PHI): Allow a minimum of 60 days between application and canola harvest.

**Postemergence (In-crop) in Hybrid Seed Production Only**

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

This product may be applied at a rate of between 16 and 32 fluid ounces per acre from emergence until pollination is complete or near completion for the control of non-Glyphosate-tolerant canola pollen parental line(s) in hybrid canola seed production fields containing both Roundup Ready canola line(s) and non-Glyphosate-tolerant line(s). Sequential applications may be made for the control of non-Glyphosate tolerant pollen parental line(s) up to a maximum total application rate of 32 fluid ounces per acre.

RESTRICTIONS: Allow a minimum of 5 days between sequential applications. Maximum total application rate of this product for ALL postemergence (in-crop) applications in hybrid canola seed production fields, including application for weed control and control of non-Glyphosate-tolerant canola, is 32 fluid ounces per acre.

**11.3 Roundup Ready Canola (Winter Varieties)**

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

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

**USE INSTRUCTIONS:** Refer to the following table for the maximum application rates of this product with winter varieties of Roundup Ready canola.
See the “ROUNDUP READY AND SPECIFIED GLYPHOSATE TOLERANT CROPS” section of this label for information regarding the use of this product in Roundup Ready crops. See the “PRODUCT INFORMATION” section of this label for more information on Maximum Application Rates.

**Preplant, At-Planting, Preemergence**

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

**Postemergence (In-crop)**

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

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

**Single Application** – Apply 24 to 32 fluid ounces of this product per acre in the fall when weeds are small and actively growing. Use a higher rate within this range when weed densities are high, when weeds have overwintered or when weeds become large and well established. Application of more than 24 fluid ounces per acre prior to the 6-leaf stage could result in reduced crop growth in the fall. Avoid spray overlaps as this could result in temporary yellowing and/or growth reduction.

**Sequential Application** – Apply 16 to 32 fluid ounces of this product per acre to 2-leaf or larger canola in the fall, followed by a sequential application at the same rate and at a minimum interval...
of 60 days, but before bolting in the spring. Sequential application works best for control of early emerging annual weeds and winter emerging weeds, such as downy brome, jointed goatgrass and ryegrass, and for weeds that have overwintered. This product will control or suppress most perennial weeds. For some perennial weeds, a sequential application might be needed to reduce competition with the crop.

RESTRICTIONS:

- No more than two over-the-top broadcast applications may be made from crop emergence up to the onset of bolting and the total in-crop application must not exceed 64 fluid ounces of this product per acre.

- Pre-harvest Interval (PHI): Allow a minimum of 60 days between application and harvest of canola grain. No waiting period is required between application and open grazing of livestock.

### 11.4 Roundup Ready and Specified glyphosate Tolerant Corn

Contact the seed manufacturer, seed distributor or seed supplier to determine if the seed variety is designated and supported as glyphosate tolerant.

**TYPES OF APPLICATIONS:** Preplant, Pre emergence, At-Planting, Postemergence (In-Crop), Spot Treatment, Preharvest, Post-Harvest.

<table>
<thead>
<tr>
<th>Maximum Application Rates</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined total per year for all applications</td>
<td>8 quarts per acre</td>
</tr>
<tr>
<td>Total of Preplant, At-Planting, Preemergence applications</td>
<td>5 quarts per acre</td>
</tr>
<tr>
<td>Total in-crop applications from emergence through the V8 stage or 30 inches</td>
<td>64 fluid ounces per acre</td>
</tr>
<tr>
<td>Maximum Preharvest application rate after maximum kernel fill is complete and the crop is physiologically mature (black layer formation) until 7 days before harvest</td>
<td>32 fluid ounces per acre</td>
</tr>
</tbody>
</table>
**ATTENTION:** AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN THE ROUNDUP READY OR SPECIFIED GLYPHOSATE TOLERANT GENE.

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

**For aerial applications:** Use the listed rates of this product in 3 to 15 gallons of spray solution per acre. Do not exceed 32 fluid ounces per acre. See ‘WEEDS CONTROLLED” section on this label. AVOID DRIFT - DO NOT APPLY DURING INVERSION CONDITIONS, WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITIONS WHICH FAVOR DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

**Preplant, Preemergence, At-Planting**

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

TANK MIXTURES: This product may be tank mixed with Bullet, Degree, Degree Xtra, Harness, Harness Xtra, Harness Xtra 5.6L, Lariat, Lasso or Micro-Tech at 50 to 100 percent of labeled rate. Refer to the specific product label and observe all precautions, restrictions and limitations on the label for any preemergence herbicide application, including application timing restrictions, soil restrictions, minimum recropping interval and rotational guidelines—the more restrictive requirements apply.

**NOTE:** For maximum weed control, a postemergence (In-Crop) application of this product should be applied following the use of less than labeled rates of the preemergence residual products listed above.

**Postemergence (In-Crop)**

USE INSTRUCTIONS: This product may be applied postemergence to Roundup Ready and specified glyphosate tolerant corn from emergence through the V8 stage (8 leaves with collars) or until corn height reaches 30 inches, whichever comes first.
When applied as directed, this product controls labeled annual grass and broadleaf weeds in Roundup Ready and specified glyphosate tolerant corn. Many perennial grasses and broadleaf weeds will be controlled or suppressed with one or more application of this product. The post-emergent application of 24 to 32 fluid ounces per acre of this product should be made before the weeds reach a height and/or density that the weeds become competitive with the crop, generally 4 inch tall weeds or less.

This product may be applied alone as a postemergence In-Crop application to provide control of emerged weeds listed on this label. If new flushes of weeds occur, a sequential application of this product at 24 to 32 fluid ounces per acre will control the labeled grasses and broadleaf weeds.

TANK MIXTURES: This product may be applied in tank mixture with Bullet, Degree, Degree Xtra, Harness, Harness Xtra, Harness Xtra 5.6L or Micro-Tech at 50 to 100 percent of labeled rate. This product may be applied in tank mixture with Permit® and atrazine at labeled rates. Refer to the specific product label and observe all precautions and limitations on the label for all products used in tank mixtures, including application timing restrictions, soil restrictions, minimum recropping interval and rotational guidelines—the more restrictive requirements apply. Tank mixtures of Nufarm Credit Herbicide with other products may impact crop tolerance and increase risk of crop injury.

<table>
<thead>
<tr>
<th>Tank-Mix Partner</th>
<th>Maximum Height of Corn For Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree</td>
<td>11 inches</td>
</tr>
<tr>
<td>Degree Xtra</td>
<td></td>
</tr>
<tr>
<td>Harness</td>
<td></td>
</tr>
<tr>
<td>Harness Xtra</td>
<td></td>
</tr>
<tr>
<td>Harness Xtra 5.6L</td>
<td></td>
</tr>
<tr>
<td>Bullet*</td>
<td>5 inches</td>
</tr>
<tr>
<td>Micro-Tech*</td>
<td></td>
</tr>
<tr>
<td>Permit</td>
<td>30 inches</td>
</tr>
<tr>
<td>Atrazine</td>
<td>12 inches</td>
</tr>
</tbody>
</table>

*Bullet and Micro-Tech are not registered for use as a post emergence application in Texas.
RESTRICTIONS:
• See the “ROUNDUP READY AND SPECIFIED GLYPHOSATE TOLERANT CROPS” section of this label for precautionary instructions for use in Roundup Ready and specified glyphosate tolerant crops.
• Single In-Crop applications of this product are not to exceed 32 fluid ounces per acre.
• Sequential In-Crop applications of this product from emergence through the V8 stage or 30 inches must not exceed 64 fluid ounces per acre per growing season.
• Pre-harvest Interval (PHI): Allow a minimum of 10 days between In-Crop applications of this product. Allow a minimum of 50 days between application of this product and harvest of corn forage.

Preharvest
USE INSTRUCTIONS: In Roundup Ready and specified glyphosate tolerant corn, up to 32 fluid ounces per acre of this product can be applied preharvest. 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).

RESTRICTIONS:
• Pre-harvest Interval (PHI): Allow a minimum of 7 days between application and harvest.

Post-Harvest
USE INSTRUCTIONS: This product may be applied after harvest of corn. 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.

RESTRICTIONS:
• Pre-harvest Interval (PHI): Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation.

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

The directions for use in this section apply only to use on FIELD CORN hybrids with Roundup Ready 2 Technology. For directions for use on SWEET CORN hybrids that contain Roundup Ready 2 Technology, see the “Sweet Corn Hybrids with Roundup Ready 2 Technology” section of this label.
TYPES OF APPLICATION: Preplant; At-Planting; Preemergence; Postemergence (In-crop); Spot Treatment; Preharvest; Post-Harvest; Postemergence (In-crop) for Tassel Control in Roundup Hybridization Systems Only

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

<table>
<thead>
<tr>
<th>Maximum Application Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined total per year for all applications</td>
</tr>
<tr>
<td>Total for all Preplant, At-Planting, Preemergence applications</td>
</tr>
<tr>
<td>Maximum single In-crop application rate up to 48-inch corn</td>
</tr>
<tr>
<td>Total for all In-crop applications from emergence through 48-inch corn</td>
</tr>
<tr>
<td>Maximum Preharvest application rate after maximum kernel fill is complete and the crop is physiologically mature (black layer formation) until 7 days before harvest*</td>
</tr>
</tbody>
</table>

*See RESTRICTIONS for Preharvest application

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

PRECAUTION:

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

Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied alone or in a tank mixture before, during or after planting field corn hybrids with Roundup Ready 2 Technology.
TANK MIXTURES: This product may be tank-mixed with the following products. Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre. Ensure that the product used is labeled for application prior to emergence of field corn. Read and follow label directions for all products in the tank mixture.

2,4-D; acetochlor; alachlor; atrazine; bicyclopyrone; carfentrazone-ethyl; clopyralid; dicamba; diflufenzopyr; dimethenamid; dimethenamid-p; flufenacet; flumetsulam; flumiclorac pentyl ester; isoxaflutole; linuron; metolachlor; s-metolachlor; metribuzin; pendimethalin; rimsulfuron; saflufenacil; simazine; thiencarbazone-methyl

Aim; Aim EC; Axiom; Balance Flexx; Bicep MAGNUM; Bicep II MAGNUM; Bicep Lite II MAGNUM; Cinch; Cinch ATZ; Clash; Corvus; Degree Xtra; Diablo; Distinct; Dual MAGNUM; Dual II MAGNUM; Frontier; FulTime; Guardsman; Guardsman MAX; Harness; Harness Xtra; Harness Xtra 5.6L; Hornet; Keystone; Keystone LA; Leadoff; Linex; Lorox; Marksman; Me-Too-Lachlor II; Outlook; Prowl; Python; Python II; Resolve; Resource; Shark; Sharpen; Simazine; Stalwart; Stalwart C; Stalwart Xtra; Surpass; TopNotch; TripleFLEX; TripleFLEX II, Weedar 64

RESTRICTIONS:

• 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.

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

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

Postemergence (In-crop)

USE INSTRUCTIONS: This product may be applied alone or in a tank-mix over the top of field corn hybrids with Roundup Ready 2 Technology from emergence through the V8 stage (8 leaves with collars), or until corn plant height reaches 30 inches (freestanding), whichever comes first, unless otherwise directed. Use drop nozzles for optimum spray coverage and weed control when corn plant height is 24 to 30 inches. When corn plants are 30 to 48 inches tall (freestanding), apply this
product using **only** ground application equipment fitted with drop nozzles aligned to avoid spraying into the whorls of the corn plants. Maximum single in-crop application rate of this product up to 48-inch field corn is 48 fluid ounces per acre. Total in-crop application of this product from corn plant emergence through 48 inches in height must not exceed 96 fluid ounces per acre.

When applied as directed, this product will control annual grasses and broadleaf weeds listed on this label. Many perennial grasses and broadleaf weeds will be controlled or suppressed with one or more applications of this product. Make a postemergence application of 24 to 32 fluid ounces of this product per acre before weeds exceed 4 inches in height (before they become competitive with the crop). Repeat this application before new flushes of weeds exceed 4 inches in height.

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

- 2,4-D
- acetochlor
- alachlor
- atrazine
- carfentrazone-ethyl
- c lopyralid
- dicamba
- diflufenzopyr
- flumetsulam
- flumiclorac pentyl ester
- foramsulfuron
- halosulfuron-methyl
- iodosulfuron-methyl-sodium
- isoxaflutole
- mesotrione
- nicosulfuron
- rimsulfuron
- trembotrione
- thiencarbazone-methyl
- thifensulfuron methyl
- topramezone
- Aim EC
- Diablo
- Basis
- Basis Gold
- Callisto
- Capreno
- Clash
- Corvus
- Degree Xtra
- Distinct
- Equip
- Harness
- Harness Xtra
- Harness Xtra 5.6L
- Hornet
- Impact
- Laudis
- Marksman
- Option
- Resolve
- Resource
- Shark
- Status
- TripleFLEX
- Warrant
- Weedar 64

**REstrictions:**

- Allow a minimum of 10 days between in-crop applications of this product.
- Pre-harvest Interval (PHI): Allow a minimum of 50 days between application of this product and harvest of corn forage or grain.

**Preharvest**

**USE INSTRUCTIONS:** Up to 32 fluid ounces of this product per acre may be applied for annual and perennial weed control prior to harvest when kernel fill is complete and the corn is physiologically mature (black layer formed) and grain moisture is 35 percent or less.
RESTRICTIONS:
- A preharvest application may be made only if the combined total of previously applied over-the-top or drop nozzle applications does not exceed 64 fluid ounces of this product per acre.
- Allow a minimum of 7 days between application and harvest or feeding of corn stover or grain.

Post-Harvest

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

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

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

THIS APPLICATION IS FOR USE ONLY IN SEED PRODUCTION OF CORN HYBRIDS USING THE ROUNDUP HYBRIDIZATION SYSTEM (RHS). DO NOT MAKE THIS APPLICATION ON CORN GROWN FOR FOOD OR FEED.

The RHS designation indicates that the corn contains Monsanto proprietary gene technology that allows for tassel-only susceptibility to this product. Use of this product on corn hybrids or inbreds that are not designated as RHS or as corn containing Roundup Ready 2 Technology could result in severe crop injury and yield loss.

USE INSTRUCTIONS: This product may be applied at rates of between 16 and 48 fluid ounces per acre as an over-the-top broadcast application for tassel control in RHS-based seed corn production fields from the V8 stage until either the V13 stage or 100 GDU (Growing Degree Units) before flowering.

(continued in booklet attached to back of container)
CREDIT® 41 EXTRA [GLYPHOSATE GROUP 9 HERBICIDE]

Non-Selective Herbicide

For Non-Selective, Broad-Spectrum Weed Control in Many Agricultural Systems, including Roundup Ready Crops and Specified Glyphosate Tolerant Crops

1.0 INGREDIENTS

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

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

TOTAL: ................................................................................................................................ 100.0%

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

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

AVOID CONTACT WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE ATTACHED BOOKLET FOR FIRST AID, ADDITIONAL PRECAUTIONARY STATEMENTS, DIRECTIONS FOR USE AND COMPLETE STORAGE AND DISPOSAL INSTRUCTIONS.

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

2.0 IMPORTANT PHONE NUMBERS: For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300. For Medical Emergencies Only, Call (877) 325-1840.

EPA Reg. No. 71368-20
EPA Est. No. 228-IL-001

Net Contents: 1 Quart (946 mL)

Manufactured for Nufarm Inc.
11901 S. Austin Avenue
Alsip, IL 60803

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Net Contents: 1 Quart (946 mL)