



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

February 5, 2024

Blake Cowen
Product Registration Manager, North America
ALBAUGH, LLC
2906 North Patterson Drive
Valdosta, GA 31602, United States

Subject: Label Amendment – Add specific language to reflect the change of ownership
Product Name: GF-1280
EPA Registration Number: 83100-76
Application Date: May 12, 2023
Case Number: 482269

Dear Blake Cowen:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or

claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Lydia Crawford by phone at 202-566-2575, or via email at Crawford.Lydia@epa.gov.

Sincerely,



Emily Schmid, Product Manager 25
Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

[Sub Label A: Ag Uses]

(Base label):

GLYPHOSATE	GROUP	9	HERBICIDE
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GF-1280**HERBICIDE****[Alternate Brand Names: Accord XRT II, Duramax[®], Durango DMA, Glyphomax]**

For control of annual and perennial weeds and woody plants in various cropping systems, fallow cropland and CRP acres, and farmsteads.

Avoid contact of this herbicide with foliage, green stems, exposed non-woody roots or fruit of crops (except crops tolerant to glyphosate), desirable plants and trees, because severe injury or destruction may result.

Active Ingredient:

glyphosate: N-(phosphonomethyl)glycine, dimethylamine salt	50.2%
Other Ingredients	49.8%
Total	100.0%

Contains 5.07 lb per gallon glyphosate, dimethylamine salt (4 lb per gallon glyphosate acid).

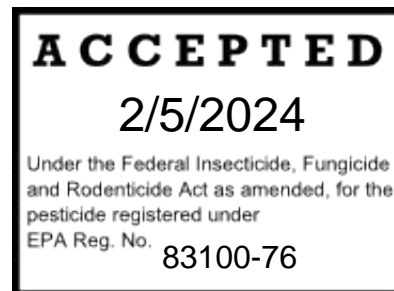
Keep Out of Reach of Children**CAUTION****Precautionary Statements****Hazards to Humans and Domestic Animals**

Causes Moderate Eye Irritation • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals

Avoid contact with skin, eyes or clothing.

Personal Protective Equipment (PPE)**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks



Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

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 thoroughly after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For non-emergency exposure information on this product, call 1-888-347-6732 (7 days/week, 24-hr). For medical emergencies, dial 911.

For 24-hour chemical spill, leak, fire, exposure or accident response information, call CHEMTREC toll free at 1-800-424-9300.

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

Environmental Hazards

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

Physical or Chemical Hazards

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

Do not mix, store or apply this product or spray solutions of this product in galvanized steel or unlined steel (except stainless steel) containers or spray tanks. This product, or spray solutions of this product react with such containers and tanks to produce hydrogen gas that may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

(Storage and Disposal for rigid containers 5 gal or less)

Storage and Disposal

Pesticide Storage: Do not contaminate water, food, feed or seed by storage or disposal.

Pesticide Disposal: Wastes resulting from the use of this product that cannot be used or chemically reprocessed must be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures. Emptied container contains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

(Storage and Disposal for refillable rigid containers larger than 5 gal)

Storage and Disposal

Pesticide Storage: Do not contaminate water, food, feed or seed by storage or disposal.

Pesticide Disposal: Wastes resulting from the use of this product that cannot be used or chemically reprocessed must be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures. Emptied container contains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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[See [inside] booklet for [additional] [complete] [First Aid,] [Precautionary Statements,] [Directions For Use,] [Storage and Disposal,] [and] [Conditions of Sale and Warranty].]

Notice: Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For non-emergency exposure information on this product, call 1-888-347-6732 (7 days/week, 24-hr). For medical emergencies, dial 911.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 83100-76

EPA Est. _____

All product names, trademarks, and registered trademarks are the property of their respective owners.

**Manufactured [for] [by]
Albaugh, LLC
1525 NE 36th Street
Ankeny, IA 50021**

NET CONTENTS ____

(cover, shipping container):

GLYPHOSATE	GROUP	9	HERBICIDE
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GF-1280

HERBICIDE

[Alternate Brand Names: Accord XRT II, Duramax[®], Durango DMA, Glyphonmax]

For control of annual and perennial weeds and woody plants in various cropping systems, fallow cropland and CRP acres, and farmsteads.

Avoid contact of this herbicide with foliage, green stems, exposed non-woody roots or fruit of crops (except crops tolerant to glyphosate), desirable plants and trees, because severe injury or destruction may result.

Active Ingredient:

glyphosate: N-(phosphonomethyl)glycine, dimethylamine salt.....	50.2%
Other Ingredients	49.8%
Total	100.0%

Contains 5.07 lb per gallon glyphosate, dimethylamine salt (4 lb per gallon glyphosate acid).

Keep Out of Reach of Children

CAUTION

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

[See [inside] booklet for [additional] [complete] [First Aid,] [Precautionary Statements,] [Directions For Use,] [Storage and Disposal,] [and] [Conditions of Sale and Warranty].]

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Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Causes Moderate Eye Irritation • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals

Avoid contact with skin, eyes or clothing.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry.

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

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If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For non-emergency exposure information on this product, call 1-888-347-6732 (7 days/week, 24-hr). For medical emergencies, dial 911.

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Environmental Hazards

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

Physical or Chemical Hazards

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

Do not mix, store or apply this product or spray solutions of this product in galvanized steel or unlined steel (except stainless steel) containers or spray tanks. This product, or spray solutions of this product react with such containers and tanks to produce hydrogen gas that may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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
- Waterproof gloves
- Shoes plus socks

Non-Agricultural Use Requirements

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

Keep people and pets off treated areas until spray solution has dried.

Storage and Disposal

Pesticide Storage: Do not contaminate water, food, feed or seed by storage or disposal.

Pesticide Disposal: Wastes resulting from the use of this product that cannot be used or chemically reprocessed must be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures. Emptied container contains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

Nonrefillable containers 5 gallons or less:

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Refillable containers 5 gallons or larger:

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Product Information

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

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

Do not add surfactants, additives containing surfactants, buffering agents, or pH adjusting agents to the spray solution when this product is the only pesticide being applied. Ammonium sulfate, drift control additives, or dyes and colorants may be used. See Mixing Directions section of this label for instructions.

Time to Symptoms: The active ingredient in 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 above ground growth and deterioration of underground plant parts. Visible effects on most annual weeds occur within 2 to 4 days, but on most perennial weeds visible effects may not occur for 7 days or more. Extremely cool or cloudy weather following treatment may slow activity of this product and delay development of visual symptoms.

Stage of Weeds: Annual weeds are easiest to control when they are small. Best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity. Refer to the annual, perennial, woody brush and trees rate tables for specific weeds. Always use the higher rate within the rate range for heavy or dense weed growth or when weeds are growing in an undisturbed (non-cultivated) area. When treating weeds with disease or insect damage, weeds heavily covered with dust, or weeds under poor growing conditions, reduced weed control may result.

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

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

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

Mode of Action: Glyphosate works by targeting an enzyme that is essential for plant growth.

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

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

Maximum Application Rates: The maximum application rates specified in this label are given in units of volume, either fluid ounces, pints or quarts, of this product per acre. The maximum allowed application rates apply to this product combined with the use of any and all other glyphosate-containing herbicides, either applied separately or in a tank mix, on the 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, ensure that the total of pounds acid equivalent glyphosate does not exceed the maximum allowed.

Do not apply more than 6 quarts (6 lb glyphosate acid) of this product per acre per year for all crops listed in this label. Do not apply more than 8 quarts (8 lb glyphosate acid) of this product per acre per year for all noncrop sites, and all tree and vine crops listed in this label.

Herbicide Resistance Management

Glyphosate, the active ingredient in this product, is a group 9 herbicide (inhibitor of EPSP synthase). Some naturally occurring weed biotypes that are tolerant (resistant) to glyphosate may exist due to genetic variability in a weed population. Where resistant biotypes exist, the repeated use of herbicides with the same mode of action can lead to the selection for resistant weeds. Certain agronomic practices reduce the likelihood that resistant weed populations will develop, and can be utilized to manage weed resistance once it occurs.

To delay the selection for glyphosate resistant weeds, use the following practices:

- Scout fields before and after application.

- Start with a clean field by applying a burndown herbicide or by tillage.
- Control weeds early when they are small.
- Add other herbicides, such as a selective and/or a residual herbicide, and cultural practices, such as tillage or crop rotation, where appropriate.
- Rotating to other glyphosate tolerant crops is one method for adding other herbicides into a continuous glyphosate tolerant system.
- Use the application rate for the most difficult to control weed in the field. Do not tank mix with other herbicides that reduce this product's efficacy through antagonism or with ones that encourage application rates of this product below those specified on this label.
- Control weed escapes and prevent weeds from setting seeds.
- Before moving from one field to another, clean equipment to minimize the spread of weed seeds or plant parts.
- Use new commercial seed that is as free of weed seed as possible.
- Report any incidence of repeated non-performance of this product against a particular weed species to the local retailer, county extension agent, or Albaugh representative.

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

- Tank mix this product or apply it sequentially with an appropriately labeled herbicide with a different mode of action to achieve control if a naturally occurring resistant biotype is present in the field.
- Cultural and mechanical control practices, such as crop rotation or tillage, may also be used.
- Rotating to other glyphosate tolerant crops is one method for adding other herbicides into a continuous glyphosate tolerant system.
- To control weed escapes, including resistant biotypes, before they set seed, scout treated fields after applying this product.
- Thoroughly clean equipment before leaving any field known to contain resistant biotypes.

Because the presence of glyphosate resistance in weed populations is difficult to detect prior to use, Albaugh accepts no liability for any losses that may result from the failure of this product to control glyphosate-resistant weeds, to the extent permitted by law.

Glyphosate resistant weeds will require this product to be applied in combination with postemergence and/or residual preemergence herbicides labeled for control of the glyphosate resistant weed species present at application site.

Not all herbicides are registered in each state or for all use sites (orchards, noncrop areas, or ditch banks) or crops for the management of ryegrass. When using this product in a tank mix, refer to each product's label and observe the most restrictive label's precautions and limitations.

Attention:

Avoid contact of herbicide with foliage, green stems, exposed non-woody roots or fruit of crops, desirable plants and trees, because severe injury or destruction may result.

Avoid Drift. Use extreme care when applying this product to prevent injury to desirable plants and crops.

Do not allow the herbicide solution to mist, drip, drift or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended. The likelihood of injury occurring from the use of 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) which are likely to drift. **Avoid applying at excessive speed or pressure.**

NOTE: Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

Spray Drift Management

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- The distance of the outermost nozzles on the boom must not exceed $\frac{3}{4}$ the length of the wingspan or rotor.
- 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 observed.

The applicator must be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory:

Aerial Drift Reduction Advisory

This section is advisory in nature and does not supersede the mandatory label requirements.

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 adverse effects from drift if applications are made improperly or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

Controlling Droplet Size:

- **Volume** – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** – Do not exceed the nozzle manufacturer's recommended pressures. Use the lower spray pressures for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** – Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation** – Orienting nozzles so that the spray is parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from 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 the largest droplets and the lowest drift.

Boom Length: For some use patterns, reducing the effective boom length to less than $\frac{3}{4}$ of the wingspan or rotor length may further reduce drift without reducing swath width.

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

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for

this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance will increase with increasing drift potential (higher wind, smaller drops, etc.).

Wind: Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Do not apply this product when wind speed is below 2 mph due to variable wind direction and high inversion potential. **Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

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

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

Sensitive Areas: Apply this pesticide 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).

Mixing Directions

Use only clean, stainless steel, fiberglass, plastic or plastic-lined steel containers to mix, store and apply spray solutions of this product. 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 mix 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 is sufficient to use on the spray equipment.

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

Note: Reduced results may occur if water containing soil is used, such as visibly muddy water or water from ponds and ditches that is not clear.

GF-1280 – Alone

This product mixes readily with water. Mix spray solutions of this product as follows:

1. Fill the mixing or spray tank with the required amount of clean water.
2. Add the specified amount of this product near the end of the filling process and mix well.
3. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foaming, avoid the use of mechanical agitators, terminate by-pass and return lines at the bottom of the tank and, if needed, use an approved anti-foam or defoaming agent.

GF-1280 – Tank Mix

This product does not provide residual weed control. For residual weed control or an alternate mode of action, tank mix this product with other herbicides. Read and carefully observe the precautionary statements and all other information appearing on the labels of all herbicides used. Use according to the most restrictive label directions for each product in the mixture.

Under certain conditions, at certain growth stages, and/or under other circumstances, some tank mix products have the potential to cause crop injury. Read all labels for products used in the tank mix prior to using them to determine the potential for crop injury.

Tank mixing with other herbicides, insecticides, fungicides, micronutrients or foliar fertilizers may result in reduced weed control or crop injury. Do not use these products in applications with this product unless otherwise noted in this label. To the extent consistent with applicable law, buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly specified in this labeling. Mixing this product with herbicides or other materials not specified on this label may result in reduced performance.

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.

Always predetermine the compatibility of all tank mix products, together in the carrier, by mixing small proportional quantities in advance of mixing and applying them to the crop.

For best results, apply tank mixes with this product in a minimum spray volume of 10 gallons per acre (gpa).

For tank mixes of this product:

1. Place a 20- to 35-mesh screen or wetting basket over filling port.
2. Through the screen, fill the spray tank one-half full with water and start agitation.
3. If ammonium sulfate is used, add it slowly into the tank through the screen and continue adding water into the tank through the screen. If dry ammonium sulfate is used, make sure it is completely dissolved in the tank before adding other products.
4. If a wettable powder is used, make a slurry with the water carrier and add it **slowly** through the screen into the tank. Continue agitation.
5. If a flowable formulation is used, premix one part flowable with one part water. Add diluted mixture **slowly** through the screen into the tank. Continue agitation.
6. If an emulsifiable concentrate formulation is used, premix one part emulsifiable concentrate with two parts water. Add diluted mixture slowly through the screen into the tank. Continue agitation.
7. Continue filling the spray tank with water and add the required amount of this product near the end of the filling process.
8. If a nonionic surfactant is used, add it to the mix tank before completing the filling process.
9. Add individual formulations to the spray tank in the following order: wettable powder, flowable, emulsifiable concentrate, drift control additive and water soluble liquid.

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

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

Handheld Sprayers

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

Spray Concentration (percent)	Amount of This Product for Desired Volume		
	1 gal	25 gal	100 gal
0.5	2/3 fl oz	1 pt	2 qt
0.75	1 fl oz	24 fl oz	3 qt
1	1 1/3 fl oz	1 qt	1 gal

1.5	2 fl oz	1 ½ qt	1 ½ gal
2	2 2/3 fl oz	2 qt	2 gal
3.75	5 fl oz	3 ¾ qt	3 ¾ gal
5	6 ½ fl oz	5 qt	5 gal
10	13 fl oz	10 qt	10 gal

For best results when using knapsack sprayers, mix the specified amount of this product with water in a larger container. Fill sprayer with the mixed solution.

Ammonium Sulfate

Adding 1 to 2 percent dry ammonium sulfate by weight or 8.5 to 17 lb per 100 gallons of water may increase the performance of this product, particularly when tank mixed with certain residual herbicides on annual and perennial weeds. The equivalent rate of ammonium sulfate in a liquid formulation may also be used. Ensure that ammonium sulfate is completely dissolved in the spray tank before adding herbicides. Thoroughly rinse the spray system with clean water after use to reduce corrosion. **Note:** When using ammonium sulfate, apply this product at rates listed in this label. Lower rates will result in reduced performance.

Nonionic Surfactant

Although not generally required, a surfactant may be added to spray solutions if water carrier volume is more than 30 gpa or the application rate for this product is less than 17 fl oz per acre.

Use nonionic surfactants that are labeled for use with herbicides. Do not reduce rates of this product when adding surfactant. When using additional surfactant, use a surfactant concentration of 0.25 to 0.5 percent (1 to 2 quarts per 100 gallons of spray solution) for surfactants containing at least 70 percent active ingredient, or a surfactant concentration of 1 percent (4 quarts per 100 gallons of spray solution) for surfactants containing less than 70 percent active ingredient. Read and follow the precautionary statements and applicable use directions on the label of the surfactant product.

Do not use surfactant with this product for applications made over the top of glyphosate tolerant crops and preharvest to cotton. Do not add buffering agents or pH adjusting agents to the spray solution when this product is the only pesticide used.

Colorants or Dyes

Agriculturally-approved colorants or marking dyes may be added to this product. Colorants or dyes used in spray solutions of this product may reduce performance, especially at lower rates or dilutions. Use colorants or dyes according to the manufacturer's directions.

Drift Control Additives

Drift control additives may be used with all equipment types, except wiper applicators, sponge bars and CDA equipment. When a drift control additive is used, read and carefully observe the precautionary statements and all other information appearing on the additive label.

Application Equipment and Application Methods

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

This product may be applied with the following application equipment. Apply spray solutions in properly maintained and calibrated equipment capable of delivering desired volumes.

Aerial: Fixed wing and helicopter

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

Handheld and Backpack Equipment: Knapsack and backpack sprayers, pump-up pressure sprayers, handguns, hand wands, 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 Equipment: Shielded and hooded sprayers, wiper applicators and sponge bars.

Injection Systems: Aerial or ground injection sprayers.

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

Aerial Equipment in All States Except California and Arkansas
Do not apply this product using aerial spray equipment except under conditions as specified within this label.

All applications listed on this product label, unless otherwise prohibited, may be made with aerial application equipment, provided that the applicator complies with all specified precautions and restrictions on this label or any supplemental labeling for this product.

Use the specified rates of this herbicide in 3 to 15 gpa of water unless otherwise specified on this label. Unless otherwise specified, do not use more than 1.5 quarts of this product per acre when applying by air. Refer to the specific use directions of this label for volumes and application rates.

Do not directly apply to any body of water.

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

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

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. **Prolonged exposure of this product to uncoated steel surfaces may result in corrosion and possible failure of the part. Landing gear components are most susceptible.** The maintenance of an organic coating (paint), which meets aerospace specification MIL-C-38413, may prevent corrosion.

Aerial Application in California and Arkansas Only

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

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

When this product is applied under the conditions described, it controls annual and perennial weeds listed in the label affixed to the container.

Only 2,4-D amine formulations may be used for aerial applications in California. Tank mixes with 2,4-D amine formulations may be applied by air in California for fallow and reduced tillage systems, and for alfalfa and pasture renovation applications only. Do not aerially apply any tank mixes with dicamba in California.

Additional Information for Fresno County, California

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

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

Always read and follow the label directions and precautionary statements for all products used in the aerial application. Observe the following directions to minimize off-site movement during aerial applications of this product. Minimizing off-site movement is the responsibility of the grower, pest control advisor and aerial applicator.

Written Directions: A written direction **must** be submitted by or on behalf of the applicator to the Fresno County Agricultural Commissioner 24 hours prior to application. The written direction **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: Aerially applying 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. To insure proper rates of herbicides and adjuvants are being applied during commercial use, test and calibrate the spray equipment at appropriate intervals. Demonstration of performance at Fresno County Agricultural Commissioner approved fly-ins constitutes such documentation, or other written records showing calculations and measurement of flight and spray parameters acceptable to the Fresno County Agricultural Commissioner.

Applications at Night: Do not aerially apply this product earlier than 30 minutes prior to sunrise and/or later than 30 minutes after sunset. Doing so requires prior permission from the Fresno County Agricultural Commissioner.

Aerial Application in Arkansas Only

Use the following guidelines when aerial applications are made near crops or desirable vegetation:

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

Avoid drift. Do not make applications 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 because it is likely to cause damage to any vegetation that is contacted. Maintain appropriate buffer zones to prevent injury to adjacent desirable vegetation.

Apply this product in 3 to 15 gpa of water. Use a sufficient carrier volume and appropriate equipment that forms droplets large enough to avoid drift. Coarse droplets in the 300 to 500 (VMD) micron range have a lower potential for drift.

Unless a greater height is required for aircraft safety, make applications with the nozzle release point 8 to 15 feet above the top of the target plants. The distance of the outermost boom nozzles must not exceed 75 percent of the length of the wingspan or rotor. Reducing this distance to 65 percent of the length of the wingspan or rotor improves drift control without affecting the swath width.

The discharge from nozzles must always be backward, parallel with the air stream, and never downwards more than 45 degrees on a fixed wing aircraft or forward of the prevailing airflow on rotary winged aircraft. Do not use nozzles with a wide angle discharge.

Do not apply during a low level temperature inversion because fine spray particles could be suspended in still air and then move outside the target area when the inversion layer moves. These conditions can occur when wind speeds are less than 2 mph.

Ground Broadcast Equipment

Use the specified rates of this product in 3 to 40 gpa of water as a broadcast spray unless otherwise specified. As density of weeds increases, increase spray volume within the specified range to ensure complete coverage. Carefully select proper nozzles to avoid spraying a fine mist. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

Handheld and Backpack Equipment

Apply to foliage of vegetation to be controlled. For applications made on a spray to wet basis, spray coverage should be uniform and complete. Do not spray to the point of runoff. Use coarse sprays only. Refer to the Handheld Sprayers section of this label for specified application rates and application timing.

Apply this product as a spot treatment using handheld equipment only when specifically directed on this label. Any crop that is sprayed with this product will be killed. In order to avoid unwanted crop destruction, be careful to not spray or allow spray to drift outside of the target area.

Selective Equipment

This product may be applied through shielded applicators, hooded sprayers, wiper applicators or sponge bars after dilution and thorough mixing with water to listed weeds growing in any noncrop site specified on this label and only when specified in cropping systems.

In cropping systems, use shielded sprayers, hooded sprayers, and wiper applicators in between rows of crop plants (row middles). Use wiper applicators over the top of crops only when specifically allowed to do so in this label. Selective equipment must be capable of preventing all contact of the herbicide solution with the crop and operated without spray mist escape, leakage, or dripping of the herbicide solution onto the crop.

Avoid contact of herbicide with desirable vegetation. Contact of the herbicide solution with desirable vegetation may result in damage or destruction.

Shielded and Hooded Applicators: When applied at the specified rates on the label and applied in shielded and hooded sprayers, this product controls the weeds listed in the rate tables in the Annual Weeds section and in the Perennial Weeds section. Use nozzles that provide uniform coverage within the treated area. Keep shields on these sprayers adjusted to protect desirable vegetation.

A hooded sprayer is a type of shielded applicator. The spray pattern is completely enclosed on the top and all sides by a hood, thereby shielding the crop from the spray solution. Adjust the shields on these sprayers to protect desirable vegetation. Ensure that the hood completely encloses the spray pattern when applying around crops grown on raised beds. If necessary, extend the front and rear flaps of the hooded sprayer downward to reach the ground in deep furrows. **Exercise extreme care to avoid contact of herbicide with desirable vegetation.** Any unintended contact of this product with any vegetation could cause damage.

Configure and operate hooded sprayers in a manner that minimizes bouncing and avoids raising the hood up off of the surface of the ground at any time. If the hoods are raised, spray particles may escape and come into contact with the crop, causing damage or destruction of the crop. The spray hoods must be operated on the ground or skimming across the ground. Avoid operation on rough or sloping ground where the spray hoods might be raised off the ground.

Use hoods designed to minimize excessive dripping or runoff down the inside of the hood. For best results, position a single, low pressure, low drift, flat fan nozzle with an 80 to 95 degree spray angle at the top center of the hood. Spray volume when using hooded sprayers is 20 to 30 gpa.

When using hooded sprayers, the following procedures reduce crop injury potential:

- Operate spray hoods on the ground or skimming across the ground surface.
- Leave at least an 8 inch untreated strip over the drill row. As an example, if the crop row width is 38 inches, the maximum width of the spray hood is 30 inches.
- To avoid bouncing of the spray hoods, operate at ground speeds of no more than 5 mph.
- Apply when wind speeds are 10 mph or less.
- Use low drift nozzles that provide uniform coverage within the treated area.

Crop injury may occur when foliage of treated weeds comes into direct contact with leaves of the crop. Do not apply this product when crop leaves are growing in direct contact with weeds to be treated. Droplets, mist, foam or splatter of the herbicide settling onto desirable vegetation may result in discoloration, stunting or destruction.

Wiper Applicators: Wiper applicators are devices that physically wipe appropriate amounts of this product directly onto the weed. Equipment must be designed, maintained and operated to prevent the herbicide solution from contacting desirable vegetation.

Adjust wiper applicators used over the top of desirable vegetation so that the wiper contact point is at least 2 inches above the desirable vegetation. Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds should be 6 inches above the desirable vegetation. Adjust the applicator height to ensure adequate contact with weeds. Weeds that are not contacted by the herbicide will not be affected. When weeds are growing in dense clumps, in severe weed infestations, or when weed height varies dramatically, poor contact may occur. Repeat treatments may be necessary in these situations.

Operate this equipment at ground speeds no more than 5 mph. Performance may be improved by reducing speed in areas of heavy weed infestations to ensure adequate wiper saturation. Better results may be obtained if two applications are made in opposite directions.

Droplets, mist, foam or splatter of the herbicide settling onto desirable vegetation may result in discoloration, stunting or destruction. Avoid leakage or dripping onto desirable vegetation. Adjust height of applicator to ensure adequate contact with weeds. Keep wiping surfaces clean. Be aware that, on sloping ground, the herbicide solution may migrate, causing dripping on the lower end and drying of the wicks on the upper end of a wiper applicator.

Do not use wiper equipment when weeds are wet.

Mix only the amount of solution to be used during a one-day period as reduced activity may result from use of leftover solutions. Clean wiper parts by thoroughly flushing with water immediately after using this product.

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

Rope or Sponge Wick Applicators: Use solutions of 33 to 75 percent of this product in water.

Panel Applicators: Use solutions of 33 to 100 percent of this product in water.

Injection Systems

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

CDA Equipment

The rate of this product applied per acre by vehicle-mounted controlled droplet application (CDA) equipment must not be less than the amount specified in this label when applied by conventional broadcast equipment. For vehicle-mounted CDA equipment, apply in 2 to 15 gpa of water.

For the control of annual weeds with handheld CDA units, apply a 20 percent solution of this product at a flow rate of 2 fl oz per minute and a walking speed of 1.5 mph (2 pints per acre). For the control of perennial weeds, apply a 20 to 30 percent solution of this product at a flow rate of 2 fl oz per minute and a walking speed of 0.75 mph (2 to 3 quarts per acre).

Controlled droplet application equipment produces a spray pattern that is not easily visible. Exercise extreme care to avoid spray or drift contacting the foliage or any other green tissue of desirable vegetation, as damage or destruction may result.

Crops

This section is organized alphabetically by crop category. There may be several labeled crops listed in a crop category. Unless otherwise specified, applications may be made to control any weeds listed in the annual, perennial and woody brush tables.

See Glyphosate Tolerant Crops section for use of this product in crops that contain the glyphosate tolerant genes. Do not use the instructions in this Crops section.

Types of Applications

Chemical fallow, preplant fallow beds, preplant, at-planting, preemergence, hooded sprayer in row middles, shielded sprayer in row middles, wiper application in row middles, postharvest

Product Application Directions

Apply this product during fallow intervals before planting, prior to planting or transplanting, at-planting, or preemergence to annual and perennial crops listed on this label except where specifically limited. If a crop is not listed on this label, apply this product at least 30 days prior to planting. Apply this product according to the rates specified in the rate tables in the Annual Weeds section, Perennial Weeds section and Woody Brush and Trees section unless otherwise specified. Application rates specified on this label to control tough weeds, or those rates on supplemental labeling for this product, supersede the rates in the rate tables in the Annual Weeds section, Perennial Weeds section, and Woody Brush and Trees section.

Repeat applications up to a maximum of 1.5 gallons of this product per acre per year may be made.

Use hooded sprayers and wiper applicators capable of preventing all crop contact with the herbicide solution in mulched or unmulched row middles after crop establishment. To control tall weeds, wiper applicators may be used over the top of crops only when specifically directed in the individual crop sections. Refer to the Selective Equipment section for essential precautions regarding crop injury. Crop injury is possible with these types of application.

Applying this product as a spot treatment in a cropping system may only be made when specifically directed to do so.

All treatments may be made by aerial equipment where appropriate provided that the applicator follows the precautions and restrictions specified on this label or on separate supplemental labeling.

Tank Mixes

This product may be tank mixed with other herbicides to provide residual weed control, a broader weed control spectrum, or an alternate mode of action. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label. Use all products according to the rates specified on the label. Some tank mix products have the potential to cause crop injury under certain conditions, at a certain crop growth stage, and/or under other circumstances. Read

all product labels used in the tank mix prior to use to determine the potential for crop injury. Always perform a tank mix compatibility test by mixing small proportional quantities in advance. A tank mix of this product with other herbicides may cause incompatibility, antagonism, or a reduction in the efficacy of this product. Not all product formulations have been tested for compatibility or performance in a tank mix. To the extent consistent with applicable law, buyers 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 not specified on this label or on separate supplemental labeling.

Product Precautions

- Do not let this herbicide contact foliage, green shoots or stems, bark, exposed roots (including those emerging from plastic mulch), or fruit of crops as severe crop injury or destruction may result.
- Transplant seedlings that come into contact with freshly sprayed weeds could result in significant crop injury.
- When making at-planting and preemergence applications, apply before crop emergence to avoid severe crop injury.
- A broadcast application made at emergence will result in injury or death of emerged seedlings.
- Apply before seed germination in coarse sandy soils to further minimize the risk of injury.

Product Restrictions

- Treatments with selective equipment, including wiper applicators and hooded sprayers, must be made at least 14 days before harvest unless otherwise specified.
- Make postharvest and fallow applications at least 30 days before planting any crop not listed on this label.
- When spot treatment is allowed, do not treat more than 10 percent of the total field to be harvested. The crop receiving the spray in the treated area will be killed. Do not spray or allow spray to drift outside of the target area in order to avoid unwanted crop destruction.
- For broadcast postemergence treatments, do not harvest or feed treated vegetation for 8 weeks following application unless otherwise specified.
- Observe the maximum application rates specified in this label. The maximum application rate applies to the use of this product combined with the use of any and all other glyphosate-containing herbicides, whether applied separately or in a mixture. Calculate the application rates (glyphosate acid equivalents) and do not exceed the specified maximum rate for the total use of this and other glyphosate-containing products.

Alfalfa, Clover, and Other Forage Legumes

Labeled Crops: Alfalfa, clover, kenaf, kudzu, lespedeza, leucaena, lupin, sainfoin, trefoil, velvet bean, vetch (all types)

Types of Applications: Preplant, at-planting, preemergence, spot treatment, wiper applicators, stand removal

Refer to the rate table in the Annual Weeds and Perennial Weeds sections for application rates of this product to specific weeds. This product controls specified annual and perennial grasses and broadleaf weeds when applied as directed.

Preplant, Preemergence and At-Planting

This product may be applied before, during or after planting crops listed in this section. Make applications prior to emergence of the crop.

Restrictions:

- Remove domestic livestock before application.
- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lb ai) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.

Spot Treatment and Wiper Applications

This product may be applied as a spot treatment or over the top to crops listed in this section with wiper applicators to control or suppress the weeds listed under Wiper Applicators and Sponge Bars in the Selective Equipment section of this label. Applications may be made in the same area at 30-day intervals.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lb ai) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- For spot treatment and wiper applications, apply in areas where the movement of domestic livestock can be controlled.
- Remove domestic livestock before application and wait three days after application before grazing livestock or harvesting.
- Do not treat more than 10 percent of the total field area at one time.

**Alfalfa (Dormant)
(Not for Use in California)**

Use this product to control or suppress many weeds, including quackgrass, downy brome and cheatgrass, in dormant alfalfa.

Applying this product to dormant alfalfa can cause crop injury. Apply 7 to 9 fl oz of this product per acre in the spring to alfalfa that is dormant. Apply after spring temperatures have warmed enough to encourage resumption of weed growth, but prior to initiation of trifoliolate leaf expansion of the alfalfa. If applications of this product are made after expansion of the first trifoliolate leaf of the alfalfa, growth reduction and reduced crop yield will result. Slight discoloration of the alfalfa may occur, but it will regreen and regrow under moist soil conditions as the effects of this product wears off.

Restrictions:

- Do not apply more than 8.0 fluid ounces (0.28 lb ai) of this product per acre per single application.
- Do not apply more than 8.0 fluid ounces (0.28 lb ai) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Do not use ammonium sulfate when spraying dormant alfalfa with this product.
- Do not use this product where a slight yield reduction in the first cutting of alfalfa cannot be tolerated.
- Do not make more than one application per year.
- Wait 36 hours after application before grazing livestock or harvesting.

Asparagus (See Miscellaneous Crops)

Berries

Labeled Crops: Blackberry (including bingleberry, black satin berry, boysenberry, Cherokee blackberry, chesterberry, Cheyenne blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, Himalayaberry, hullberry, juneberry, lavacaberry, lowberry, lucretiaberry, marionberry, nectarberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, and youngberry), blueberry, boysenberry, cranberry, currant, elderberry, gooseberry, loganberry, salal

Types of Applications: Those listed in Tree, Vine and Shrub Crops section plus spot treatment (cranberry), postharvest (cranberry)

Restrictions:

- **Cranberry:**
 - Preharvest Interval:** Do not apply within 30 days of harvest.
 - Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
 - Do not apply more than 7.0 quarts (7.9 lb ai) of this product per acre per year.
 - Retreatment Interval (RTI): 7 days.

- **Other Small Fruits and Berries:**

- Preharvest Interval:** Do not apply within 14 days of harvest.
- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 7.0 quarts (7.9 lb ai) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.

- Do not permit herbicide solution to contact desirable vegetation, including green shoots, canes or foliage.

Spot Treatment (Cranberry)

Spot treatments may be used to control weeds growing in dry ditches (interior and perimeter) of cranberry production areas. Handheld sprayers or appropriate application equipment listed under Application Equipment and Application Methods in this label may be used. Reduce water level to remove standing water in ditches prior to application. For handheld sprayers, use 1 to 1.5 percent solution of this product. Spray to wet vegetation, but not to runoff.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 7.0 quarts (7.9 lb ai) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- **Preharvest Interval:** Do not apply within 30 days of harvest.
- For treatments after draw down of water in dry ditches, allow two days or more after treatment before reintroducing water to achieve maximum weed control.
- Apply this product within one day after draw down to ensure application to actively growing weeds.
- Do not make applications by air.
- Do not apply directly to water.
- Use nozzles that emit medium to large sized droplets to minimize drift in order to avoid crop injury.

Postharvest (Cranberry)

Application of this product may be made after the harvest of cranberries to control weeds growing within the field. Best results will be obtained if applications are made to vines that appear dormant (after they have turned red). Handheld sprayers, wipers, or other appropriate application equipment listed under Application Equipment and Application Methods in this label may be used. If using handheld sprayers, use a 0.4 to 0.75 percent solution of this product. Spray to wet vegetation, but not to runoff. If using handheld boom sprayers, apply 1.5 to 3 quarts of this product per acre.

Precautions:

- Even though vines appear dormant, contact of the herbicide solution with desirable vegetation may result in damage or severe plant injury. Cranberry plants that are directly sprayed may be killed.

Restrictions:

- Do not apply more than 2.6 quarts (3.02 lb ai) of this product per acre per single application.
- Do not apply more than 7.0 quarts (7.9 lb ai) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Make applications only after cranberries have been harvested.
- Do not treat more than 10 percent of the total bog.
- Allow a minimum of 6 months after the last application and next harvest of cranberries.
- Do not make applications by air.
- Do not apply directly to water.

Canola, Crambe, Mustard (Seed) (See Oilseeds)

Cereal and Grain Crops

Labeled Crops: Barley, buckwheat, millet (pearl, proso), oats, quinoa, rice, rye, teff, teosinte, triticale, wheat (all), wild rice

Types of Applications: Those listed in Crops section plus red rice control prior to planting rice, spot treatment (except rice), barnyardgrass control in rice with renovation treatments (California only), wiper application (feed barley and wheat only)

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lb ai) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Do not treat rice fields or levees when field contains water.

Preplant, Preemergence and At-Planting

This product may be applied before, during or after planting of cereal crops. Make applications prior to emergence of the crop.

Red Rice Control Prior to Planting Rice

Apply 2.25 pints of this product in 5 to 10 gpa of water. Flush fields prior to application to obtain uniform germination and stand of red rice. Apply when the majority of the red rice plants are in the 2-leaf stage and no more than 4 inches tall. Red rice plants with less than 2 true leaves may be only partially controlled.

Precautions:

- Avoid spraying during low humidity conditions as reduced control may result.

Restrictions:

- Do not apply more than 32 fluid ounces (1.125 lb ai) of this product per acre per single application.
- Do not apply more than 32 fluid ounces (1.125 lb ai) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Do not treat rice fields or levees when the fields contain floodwater.
- Do not re-flood treated fields for eight days following application.

Spot Treatment (Except Rice)

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

Precautions:

- The crop receiving spray in the treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lb ai) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Do not treat more than 10 percent of the total field area to be harvested.

Barnyardgrass Control in Rice with Renovation Treatments (California Only)

Use this product applied as a renovation treatment in rice to control barnyardgrass infestations using ground broadcast spray or handheld equipment. Renovation is a herbicide treatment that produces crop and weed destruction in an entire field or a contiguous area treated within a field. Follow the application methods and specified rates in the label attached to this product's container.

Restrictions:

- The crop that is in the treated area will be killed. Do not spray or allow the spray to drift outside of the target area in order to avoid unwanted crop destruction.
- Do not use the rice straw and stubble from the treated area, including a 25-foot buffer zone on all sides, for grazing, animal bedding, or any feed purposes.
- Do not aerially apply this product.

Wiper Applications (Wheat and Feed Barley Only)

To control common rye or cereal rye, apply after the weeds have headed and achieved maximum growth and when the rye is at least 6 inches above the wheat or feed barley crop.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lb ai) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- **Preharvest Interval:** Do not apply within 35 days of harvest.
- Do not use roller applicators.

Postharvest

This product may be applied after harvest of cereal crops. Higher rates may be required for control of large weeds that were growing in the crop at the time of harvest. Tank mixtures of this product with 2,4-D or dicamba may be used provided the product to be tank mixed is registered for use on cereal crops.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lb ai) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- **Preharvest Interval:** Do not apply within 7 days of harvest or feeding of treated vegetation.
- For any crop not listed on this label, make applications at least 30 days prior to planting the next crop.

Christmas Trees

Types of Applications: Those listed in Tree, Vine, and Shrub Crops section, site preparation, broadcast application

Directed Spray, Spot Treatment, and Wiper Application

This product may be used as a post-directed spray and spot treatment around established Christmas trees.

Precautions:

- Desirable plants may be protected from the spray solution by using shields or coverings made of cardboard or other impermeable material.
- Exercise care to avoid contact of spray, drift or mist with foliage or green bark of established Christmas trees.

Site Preparation

This product may be used prior to planting Christmas trees.

Precautions:

- Take precautions to protect nontarget plants during site preparation applications.

**Broadcast Application
(Not for Use in California)**

This product, if improperly applied, has the potential to cause severe injury to Christmas trees. Carefully follow all use directions. Broadcast apply this product over the established Christmas tree species douglas fir (*Pseudotsuga menziesii*), fir species (*Abies* spp.), and spruce species (*Picea* spp.). Use 1.5 pints of this product per acre in 5 to 30 gpa of water. Apply after trees have completed at least a year from planting or transplanting.

Apply only in the fall after the formation of the final conifer resting buds. Final resting buds must be fully hardened and in the dormant stage. Applying this product at any other time may result in unacceptable injury to the Christmas trees. Avoid spray pattern overlap as injury may occur.

In some areas, 1.5 to 3 pints of this product per acre may be used. Consult your local representative for specific use instructions if rates greater than 1.5 pints per acre are required.

For best results, do not use drift control additives as they may increase injury to Christmas trees.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application for directed spray and spot treatment.
- Do not apply more than 7.0 quarts (7.9 lb ai) of this product per acre per single application for application.
- Do not apply more than 7.0 quarts (7.9 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days
- **Preharvest Interval:** Do not apply within 1 full year prior to tree harvest.
- Ensure that adequate buffers are maintained to prevent drift onto nearby desirable crops or vegetation.
- Avoid spray pattern overlap as damage to Christmas trees could occur.
- Do not add surfactants, additives containing surfactants, or any other additive, including a drift control additive, to this product as severe Christmas tree injury may result.
- Do not use other herbicides, insecticides, or fungicides in a tank mix with this product as severe Christmas tree injury may occur.

Citrus

Labeled Crops: Calamondin, chironja, citron, citrus hybrids, grapefruit, kumquat, lemon, lime, mandarin (tangerine), orange (all), pummelo, satsuma, mandarin, tangelo (ugli), tangor

Types of Applications: Those listed in Tree, Vine and Shrubs Crops section

Florida and Texas Only: For burndown or control of the weeds listed below, apply the listed rates of this product in 3 to 30 gpa of water. Where weed foliage is dense, use 10 to 30 gpa of water.

For goatweed, apply 1.5 to 2.25 quarts of this product per acre. Apply in 20 to 30 gpa of water when plants are actively growing. Use 1.5 quarts per acre when plants are less than 8 inches tall and 2.25 quarts per acre when plants are more than 8 inches tall. If goatweed is more than 8 inches tall, the addition of Krovar II or Karmex may improve control. Refer to the individual product labels for specific crops, rates, geographic restrictions and precautionary statements.

Perennial Weeds	Rate Per Acre			
	1.5 pt	1.5 qt	2.25 qt	3.75 qt
bermudagrass	B	--	PC	C
guineagrass (area) (Texas and Florida ridge)	B	C	C	C
(Florida flatwoods)	--	B	C	C
paragrass	B	C	C	C
torpedograss	S	--	PC	C

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

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application for directed spray and spot treatment.
- Do not apply more than 7.0 quarts (7.9 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days
- **Preharvest Interval:** Do not apply within 1 day of harvest.
- Apply as a directed spray only in citron groves.

Conservation Reserve Program (CRP)

Types of Applications: Renovation (rotating out of CRP), site preparation, postemergence weed control in dormant CRP grasses, wiper applicator

Refer to the rate table in the Annual Weeds and Perennial Weeds sections for application rates of this product to specific weeds. This product controls specified annual and perennial grasses and broadleaf weeds when applied as directed.

Renovation (Rotating Out of CRP) and Site Preparation

This product may be used to prepare CRP land for crop production. For any crops not listed for treatment in this label, make applications at least 30 days prior to planting.

Postemergence Weed Control in Dormant CRP Grasses and Wiper Applicator

This product may be used to suppress competitive growth and seed production of undesirable vegetation in CRP acres. Such applications may be made with wiper application equipment to control tall weeds or as a broadcast or spot treatment to dormant CRP grasses. For selective weed control, apply 9 to 12 fl oz of this product per acre with broadcast spray equipment in early spring before desirable CRP grasses, such as crested and tall wheatgrass, break dormancy and initiate green growth. Late fall applications can be made after desirable perennial grasses have reached dormancy.

Precautions:

- Some stunting of CRP perennial grasses will occur if broadcast applications are made when plants are not dormant.
- No waiting period is required between application and grazing or harvesting for feed.

Restrictions:

- Do not apply more than 2.0 quarts (2.25 lbs.lb a.e.) of this product per acre per year onto CRP land.
- Do not apply more than 2.0 quarts (2.25 lbs.lb a.e.) of this product per acre per single application onto CRP land.

Retreatment Interval (RTI): 7 days.

Corn

Use directions for corn hybrids tolerant to glyphosate (including glyphosate tolerant field corn and field corn products) or with sweet corn hybrids tolerant glyphosate (including glyphosate tolerant sweet corn and sweet corn products) are in the Glyphosate Tolerant Crops section of this label.

Labeled Crops: Field corn, seed corn, silage corn, sweet corn, popcorn

Types of Applications: Those listed in Crops section plus spot treatment,

Preplant, Preemergence and At-Planting

This product may be applied before, during or after planting corn. Make applications prior to emergence of the crop.

Tank Mixes: This product may be tank mixed with the active ingredients below provided that the product selected is labeled for application prior to the planting or emergence of corn. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label. Apply in 10 to 20 gpa of water or in 10 to 60 gpa of nitrogen.

2,4-D	flumetsulam	nicosulfuron
acetochlor	flumicloracpentylester	pendimethalin
atrazine	fluroxypyr	pyroxasulfone
bicyclopyrone	fluthiacet-methyl	rimsulfuron
cafentrezone-ethyl	isoxaflutole	saflufenacil
clopyralid	linuron	s-metolachlor
dicamba	mesotrione	tembotrione

diflufenzopyr
dimethenamid
dimethenamid-P

metolachlor
metribuzin

thiencarbazone-methyl
topramezone

For tough to control annual weeds, such as fall panicum, barnyardgrass, crabgrass, shattercane, and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 1.5 pints per acre in tank mixes. For other annual weeds listed in this label, apply 18 fl oz to 1.5 pints of this product per acre when weeds are less than 6 inches tall, and 1.5 to 2.25 pints per acre when weeds are more than 6 inches tall. When using nitrogen solutions as the carrier, the rate may need to be increased for acceptable weed control.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Make applications with 2,4-D or dicamba at least 7 days prior to planting corn.
- In southern states, do not apply this product in nitrogen solutions to tough to control grasses, such as barnyardgrass, fall panicum, broadleaf signalgrass, annual ryegrass, and any perennial weeds. This area includes Illinois and Indiana south of Route 50, Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, New Jersey, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia and West Virginia.
- **Preharvest Interval:** Do not apply within 7 days of harvest.
- Do not treat corn grown for seed because a reduction in germination or vigor may result.

Hooded Sprayers

This product may be used through hooded sprayers for weed control between the 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 Application Methods section.

Precautions:

- Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage.

Restrictions:

- Corn must be at least 12 inches tall, measured without extending the leaves.
- Do not apply more than 1.5 pints of this product per acre for each application by hooded sprayer.
- Do not apply more than a total of 2.25 quarts of this product per acre per year using hooded sprayer application.
- **Preharvest interval:** Do not apply within 7 days of harvest.
- Do not treat corn grown for seed because a reduction in germination or vigor may result.

Spot Treatment

For spot treatments, apply this product prior to silking of corn.

Precautions:

- The crop receiving spray in the treated area will be killed. Avoid drift or spray outside target area for the same reason.

Restrictions:

- Do not treat more than 10 percent of the total field area to be harvested.

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). For ground applications, apply up to 2.25 quarts of this product per acre. For aerial applications, apply up to 3.1 pints of this product per acre.

Restrictions:

- Preharvest Interval: Do not apply within 7 days of harvest.
- Do not treat corn grown for seed because a reduction in germination or vigor may result.

Postharvest

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 of this product with 2,4-D or dicamba may be used provided the label of the tank mix product is registered for postharvest use in corn.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days
- Preharvest Interval: Do not apply within 7 days of harvest or feeding of treated vegetation.
- Apply at least 30 days before planting any crop not listed on this label.

Cotton

Use directions for glyphosate tolerant cotton are in the Glyphosate Tolerant Crops section of this label.

Types of Applications: Those listed in Crops section plus selective equipment, spot treatment, preharvest

Preplant, Preemergence, and At-Planting

This product may be applied before, during or after planting cotton. Applications must be made prior to emergence of the crop.

Tank Mixes: Apply tank mixes in 10 to 20 gpa of water. This product may be tank mixed with 2,4-D or dicamba and applied as a preplant application only. This product may be tank mixed with the active ingredients listed provided the mixing partner is labeled for preplant or preemergence application to cotton. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

2, 4-D
acetochlor
clomazone
diuron
flumioxazin

fluometuron
fomesafen
metolachlor
norflurazon
pendimethalin

prometryn
pyrithiobac-sodium
saflufenacil
s-metolachlor

Selective Equipment

This product may be applied through hooded sprayers, shielded applicators or wiper applicators over the top in cotton. See Selective Equipment in Application Equipment and Application Methods section of this label for information on proper use and calibration of this equipment.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- **Preharvest Interval:** Do not apply within 7 days of harvest.

Spot Treatment

For spot treatments, apply this product prior to boll opening of cotton.

Precautions:

- The crop receiving spray in treated area will be killed. Avoid drift or spray outside target area for the same reason.

Restrictions:

- Do not treat more than 10 percent of the total field area to be harvested.

Preharvest

This product provides weed control and cotton regrowth inhibition when applied prior to harvest of cotton. For weed control, apply at rates given in the annual, perennial and woody brush tables of this label. Apply 12 fl oz to 1.5 quarts of this product per acre for cotton regrowth inhibition. Apply after sufficient bolls have developed to produce the desired yield of cotton. Applications made prior to this time could affect maximum yield potential.

Tank Mixes: This product may be tank mixed with tribufos , diuron + thidiazuron (or glyphosate-isopropylammonium + imazapyr, isopropylamine salt to provide additional enhancement of cotton leaf drop.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- **Preharvest Interval:** Do not apply within 7 days of harvest.
- Do not add additional surfactant or additives containing surfactant to this product for preharvest application to cotton.

Dry Peas, Lentils, Chickpeas (See Vegetable Crops)**Fallow Systems**

Types of Applications: Chemical fallow, postharvest, preplant fallow beds, aid-to-tillage

Chemical Fallow

This product may be applied during the fallow period prior to planting or emergence of any crop listed on this label. For any crop not listed on this label, make applications at least 30 days prior to planting. This product may be used as a substitute for tillage to control annual weeds in fallow fields. Also, broadcast or spot treatments will control or suppress many perennial weeds in fallow fields. Ground or aerial application equipment may be used. Application of up to 1.5 quarts of this product per acre may be made by aerial application in fallow sites where there is sufficient buffer to prevent injury to adjacent crops from drift. Tank mixtures of this product with 2,4-D, dicamba or picloram-potassium may be used provided the tank mix product is labeled for postharvest or fallow land use. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

Precautions:

- Some crop injury may occur if dicamba is applied within 45 days of planting.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Do not aeriually apply tank mixtures of this product with dicamba or picloram-potassium in California.
- Follow planting, cropping, crop rotation and other restrictions and use precautions on the labels of each product used in tank mixtures.

Preplant Fallow Beds

This product may be applied to fallow beds prior to planting or emergence of any crop listed on this label. For any crop not listed on this label, make applications at least 30 days prior to planting. This product will control weeds listed in the annual, perennial and woody brush tables.

Tank Mixes: 9 fl oz of this product plus 2 to 4 fl oz of Goal® 2XL 92894-2 (oxyfluorfen) per acre will control the following weeds with the maximum height or length indicated: 3 inches – common cheeseweed, chickweed, groundsel; 6 inches – London rocket, shepherd's-purse.

12 fl oz of this product plus 2 to 4 fl oz of Goal 2XL per acre will control the following weeds with 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

This product may be used in conjunction with tillage practices in fallow systems or preplant to labeled crops to control downy brome, cheat, volunteer wheat, tansy mustard and foxtail. Apply 6 fl oz of this product in 3 to 10 gpa of water. Make applications before weeds are 6 inches in height. Application must be followed by conventional tillage practices no later than 15 days after treatment and before regrowth occurs. Allow at least one day after application before tillage.

Precautions:

- Tank mixtures of this product with residual herbicides may result in reduced performance.

Farmsteads

Types of Applications: Weed control, trim and edge, greenhouse/shadehouse, chemical mowing, cut stump, habitat management.

Weed Control and Trim and Edge

This product may be used in farmsteads including around building foundations, in dry ditches, dry canals, along ditchbanks, driveways, farm yards rangeland, rights-of way, shelterbelts, and prior to ornamental landscape plantings.

Tank Mixes: The active ingredients listed below may be tank mixed with this product. Ensure that the specific product used is labeled for the same use sites. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label. Tank mixes of this product with herbicides, insecticides or fungicides may result in crop injury or reduced weed control.

2,4-D	oryzalin	oxadiazon
bromacil	diuron	pendimethalin
chlorosulfuron	imazapyr	prodiamine
dicamba	metsulfuron-methyl	sulfometuron-methyl

For annual weeds, apply 1.5 pints per acre when weeds are less than 6 inches tall, 2.25 pints per acre when weeds are 6 to 12 inches tall, and 1.5 quarts per acre when weeds are more than 12 inches tall. For perennial weeds, apply 1.5 to 3.75 quarts per acre in a tank mix with the above products. To apply this product using a backpack sprayer, handgun, or other handheld applicator, see the Annual Weeds section of this label for the required concentration of this product in the mix.

Greenhouse/Shadehouse

Use this product to control weeds in and around greenhouses and shadehouses.

Restrictions:

- Unless otherwise specified, do not apply more than 7 quarts (7.9 lbs.lb a.e.) of this product per acre per single application.
- Unless otherwise specified, do not apply more than 7 quarts (7.9 lbs.lb a.e.) of this product per acre per year.
- Do not apply this product in residential greenhouses.
- Turn off air circulation fans until after the application has dried.
- Remove desirable vegetation during the application.

Chemical Mowing

This product suppresses perennial grasses listed in this section and serves as a substitute for mowing. Use 4.5 fl oz of this product per acre when treating Kentucky bluegrass, tall fescue, fine fescue, orchardgrass, bahiagrass, or quackgrass covers. Apply 12 fl oz per acre when treating bermudagrass. Apply 1.5 quarts of this product per acre when treating torpedograss or paragrass. Apply treatments in 10 to 20 gpa of spray solution. Chemical mowing applications may be made along farm ditches and other parts of farmsteads.

Restrictions:

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

Habitat Management

Types of Uses: Habitat restoration and maintenance, wildlife food plots

Habitat Restoration and Maintenance: This product may be used to control exotic and other undesirable vegetation in habitat management areas. Applications can be made to allow recovery of native plant species, prior to planting desirable native species, and for similar broad spectrum vegetation control requirements. Spot treatments can be made to selectively remove unwanted plants for habitat maintenance and enhancement. The tank mixtures listed in this section of the label (Farmsteads) may be used for habitat restoration and maintenance.

Wildlife Food Plots: This product may be used as a site preparation treatment to control annual and perennial weeds prior to planting wildlife food plots. Any wildlife food species may be planted after applying this product, or native species may be allowed to repopulate the area. If tillage is needed to prepare a seedbed, wait 7 days after application before tillage.

Precautions:

- Following application of this product, there are no rotational restrictions for planting any wildlife food species or allowing native species to repopulate the area.

Fescue Grown for Seed (Not for Use in California)

Apply this product on glyphosate-tolerant tall and fine fescue grown for seed only. Use 4 to 12 fl oz of this product per acre as a postemergence spray on glyphosate-tolerant tall fescue selections. Apply six weeks after germination and to established crops after growth resumes in the fall until onset of dormancy, and in the spring after dormancy break until 60 days before harvest.

Applying this product postemergence controls or suppresses the following weeds: annual bluegrass mustards, Canada thistle, cheatgrass, chickweed, dandelion, downy brome, fleabane, pennycress, quackgrass, shepherd's-purse, sowthistle, and wild oat. The specified rate range of this product limits the level of control of certain weed species. **Note:** Some crop discoloration and yellowing may occur at higher rates of application with glyphosate-tolerant tall and fine fescue selections. Reduction in stand of these selections may occur under conditions of stress.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Do not spray during or within two weeks after periods when the air temperature is below 25°F.
- Remove domestic livestock from the seed production field prior to application.
- Do not resume grazing or harvesting the treated area for 60 days after application.
- Make only two applications of this product per crop growth cycle to any one site. If two applications are required, make only one fall and one spring application during one 12-month cycle.

Grain Sorghum (Milo)

Types of Applications: Chemical fallow, preplant fallow beds, preplant, at-planting, preemergence, hooded sprayer in row middles, shielded sprayer in row middles, wiper application in row middles, postharvest plus spot treatment.

Preplant, Preemergence, and At-Planting

This product may be applied before, during or after planting grain sorghum. Applications must be made prior to emergence of the crop.

Tank Mixes: The following herbicide active ingredients may be applied in tank mix combination with this product in 10 to 20 gpa of water or 10 to 60 gpa of nitrogen solution. Ensure that the product chosen is labeled for application prior to planting or emergence of grain sorghum. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

acetochlor	s-metolachlor
atrazine	saflufenacil
metolachlor	

For difficult to control weeds, such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 1.5 pints per acre in these tank mixtures. For other labeled annual weeds, apply 18 fl oz to 1.5 pints of this product per acre when weeds are less than 6 inches tall, and 1.5 to 2.25 pints when weeds are more than 6 inches tall. The use rate may need to be increased to achieve adequate weed control when nitrogen solutions are used as the carrier.

Spot Treatment and Wiper Applicators

This product may be applied as a spot treatment in grain sorghum. Make spot treatments before heading of milo. This product may be applied with wiper applicators to control or suppress the weeds listed under Wiper Applicators in the Selective Equipment section of this label.

Precautions:

- **Spot treatment:** the crop receiving spray in treated area will be killed. Avoid drift or spray outside target area for the same reason.

Restrictions:

• Spot Treatment

- Do not treat more than 10 percent of the total field area to be harvested.
- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.

• Wiper Applicator

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Preharvest Interval:** Do not apply within 40 days of harvest.
- Do not use roller applicators.
- Do not feed or graze treated sorghum fodder.
- Do not feed or graze ensile treated vegetation.

Hooded Sprayers

This product may be used through hooded sprayers for weed control between the rows of grain sorghum. Only hooded sprayers that completely enclose the spray pattern may be used. See additional instructions for the use of hooded sprayers in the Application Equipment and Application Methods section of this label.

Precautions:

- Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage.

Restrictions:

- Grain sorghum must be at least 12 inches tall measured without extending the leaves.
- Treat before grain sorghum sends tillers between the drill rows. If tillers are sprayed with this herbicide, the main plant may be damaged or destroyed.
- Do not graze or feed grain sorghum forage or fodder following applications of this product through hooded sprayers.
- Do not apply more than 1.5 pints of this product per acre per hooded sprayer application.
- Do not apply more than a total of 4.5 pints of this product per acre per year using hooded sprayer application.

Preharvest

This product may be applied prior to harvest of grain sorghum. Make applications of 1.5 quarts per acre at 30 percent grain moisture or less.

Precautions:

- Avoid preharvest application of this product to milo infected with charcoal rot as lodging can occur.
- Do not treat sorghum grown for seed as reduction in germination or vigor may occur.

Restrictions:

- Preharvest Interval: Do not apply within 7 days of harvest.
- Do not apply more than 1.5 quarts of this product per acre.
- The use of this product for preharvest grain sorghum (milo) is not registered in California.

Postharvest

This product may be applied after harvest of grain sorghum. Higher rates may be required for control of large weeds that were growing in the crop at the time of harvest. Tank mixtures of this product with 2,4-D or dicamba may be used provided the tank mix product is labeled for postharvest application.

This product may be applied to grain sorghum (milo) stubble following harvest to suppress or control regrowth. Apply 1.5 pints of this product per acre for control, or 1.25 pints of this product per acre for suppression.

Restrictions:

- Preharvest Interval: Do not apply within 7 days of harvest or feeding of treated vegetation.
- Apply at least 30 days prior to planting any crop not listed on this label.
-

Grass Seed or Sod Production

Labeled Crops: Any grass (*Gramineae* family), except corn, sorghum, sugarcane, and those listed in the Cereal and Grain Crops section of the label

Types of Applications: Preplant, preemergence, at-planting, renovation, site preparation, removal of established stand, shielded sprayers, wiper applicators, spot treatments, creating rows in annual ryegrass.

Refer to the rate table in the Annual Weeds and Perennial Weeds sections for application rates of this product to specific weeds. This product controls specified annual and perennial grasses and broadleaf weeds when applied as directed.

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

Apply to existing vegetation for renovation of turf or forage grass areas grown for seed production, or to establish turfgrass grown for sod. This product can be used to destroy any remaining undesirable grass vegetation when production fields are converted to alternate species or crops. Applications must be made prior to the emergence of the crop to avoid crop injury. For maximum control of existing vegetation, delay planting to determine if any regrowth from escaped underground plant parts occurs. If existing vegetation is growing under mowed turfgrass management, apply after omitting at least one regular mowing as sufficient regrowth must be attained prior to application. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm season turfgrasses, such as bermudagrass, summer or fall applications provide best control. Use broadcast application equipment to control sod remnants or any other unwanted vegetation after harvesting sod. Apply up to 3.75 quarts of this product per acre to totally remove an established stand of tough to kill grass species.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Do not disturb soil or underground plant parts before treatment.
- Delay tillage or renovation techniques, such as vertical mowing, coring or slicing, for 7 days after application to allow proper translocation into underground plant parts.
- If application rates total 2.25 quarts or less per acre, no waiting period between treatment and feeding or livestock grazing is required.
- If the application rate is more than 2.25 quarts per acre, remove domestic livestock before application and wait 8 weeks following application before grazing or harvesting.
- Crops listed on this label may be planted into the treated area at any time. For any crop not listed for treatment in this label, applications must be made at least 30 days prior to planting. Apply this product prior to the emergence of the crop to avoid crop injury.

Shielded Sprayers

Apply 1.5 to 2.25 quarts of this product as a broadcast spray in 10 to 20 gpa of water to control weeds between grass seed rows. Uniform planting in straight rows aids in shielded sprayer applications. Best results are obtained when the grass seed crop is small enough to easily pass by the protective shields.

Precautions:

- Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage.

Wiper Applicators

Apply this product over the top of desirable grasses using a wiper applicator to control tall weeds.

Precautions:

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

Spot Treatments

Use a 1 percent solution using handheld spray equipment to control weeds in established vegetation prior to heading of grasses grown for seed. Handheld equipment may also be used for controlling sod remnants or other unwanted vegetation after sod is harvested.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Do not spray or allow spray to drift outside of the target area in order to avoid unwanted crop destruction. The crop receiving the spray in the treated areas will be killed.

Creating Rows in Annual Ryegrass

Use 12 fl oz to 1.5 pints of this product per acre mixed with water. For best results, apply before ryegrass reaches 6 inches in height. Use the higher rate in the rate range when the ryegrass is more than 6 inches tall. Set nozzle heights to allow the establishment of the desired row spacing while preventing spray droplets, spray fines, or drift to contact the ryegrass plants not treated.

Precautions:

- Use low pressure nozzles or drop nozzles designed to target the application over a narrow band.
- **To the extent permitted by law, grower assumes all responsibility for crop losses from misapplication.**

Herbs and Spices

Labeled Crops: Allspice, angelica, annatto (seed), balm, basil, black caraway, borage, burnet, camomile, caper buds, caraway, cardamom, cassia bark, cassia buds, catnip, celery seed, chervil (dried), Chinese chive, chive, cilantro (leaf and seed), cinnamon, clary, clove buds, coriander leaf (cilantro or Chinese parsley), coriander seed (cilantro), costmary, cumin, curry (leaf), dill (dillweed), dill (seed), epazote, fennel seed (common and Florence), fenugreek, 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, star anise, stevia leaves, sweet bay, tansy, tarragon, thyme, vanilla, white ginger flower, wintergreen, woodruff, wormwood

Types of Applications: Those listed in Crops section plus wiper application (peppermint and spearmint only), spot treatments (peppermint and spearmint only).

Precautions:

- When applying this product prior to transplanting or direct seeding crops into plastic mulch, take care to remove residues of this product which could cause crop injury from the plastic prior to planting. Residues can be removed by a single 0.5 inch application of water, either by natural rainfall or via a sprinkler system.
- Take care to insure the washwater flushes off the plastic mulch and does not enter transplant holes.
- Applications made at emergence will result in injury or death to emerged seedlings.

Wiper Application and Spot Treatments (Peppermint and Spearmint Only)

This product may be used as a spot treatment in spearmint and peppermint. It may also be applied as an over the top treatment using a wiper applicator to control tall weeds. See additional instructions on the use of wiper applicators in the Application Equipment and Application Methods section of the label.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- **Preharvest Interval:** Do not apply within 7 days of harvest.
- Further applications may be made in the same area at 30-day intervals.
- Do not treat more than 10 percent of the total field area to be harvested with a spot application at one time.
- The crop receiving spray in the treated area will be killed. Take care to avoid drift or spray outside the target area for this reason.
- For wiper application, droplets, mist, foam, or splatter of the herbicide solution onto desirable vegetation may result in discoloration, stunting, or destruction.

Miscellaneous Crops

Labeled Crops: Aloe vera, asparagus, bamboo shoots, globe artichoke, okra, peanut (ground nut), pineapple, strawberry, sugar beet

Use directions for glyphosate tolerant sugar beet are in the Glyphosate Tolerant Crops section of this label.

Types of Applications: Those listed in Crops section plus spot treatment, site preparation, spot treatment (asparagus), postharvest (asparagus)

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Avoid contact of herbicide with foliage, green shoots or stems, bark, exposed roots (including those emerging from plastic mulch), or fruit of crops because severe injury or destruction may result.
- When making preemergence and at-planting applications, apply before crop emergence to avoid severe crop injury.
- Apply before seed germination in coarse sandy soils to further minimize the risk of injury.
- In crops with vines, make hooded sprayer, shielded sprayer and wiper applicators applications to row middles prior to vine development to prevent severe crop injury or destruction
- See Application Equipment and Application Methods section of this label for additional information.

Spot Treatment and Site Preparation

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

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- When applying this product prior to transplanting or direct seeding crops into plastic mulch, take care to remove residues of this product which could cause crop injury from the plastic prior to planting. Residues can be removed by a single 0.5 inch application of water, either by natural rainfall or via a sprinkler system.
- Take care to insure the washwater flushes off the plastic mulch and does not enter transplant holes.
- Allow at least 21 days between residue removal and transplanting.
- Applications made at emergence will result in injury or death to emerged seedlings.
- Do not apply within one week before the first asparagus spears emerge.
- Do not feed or graze treated pineapple forage following application.

Spot Treatment (Asparagus)

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

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- **Preharvest Interval:** Do not apply within 5 days of harvest.
- Do not treat more than 10 percent of the total field area to be harvested.

Postharvest (Asparagus)

This product may be applied after the last harvest and all spears have been removed. If spears are allowed to regrow, delay application until ferns have developed. Apply delayed treatments as a directed or shielded spray in order to avoid contact of the spray with ferns, stems or spears. See Application Equipment and Application Methods section of this label for additional information.

Restrictions:

- Direct contact of the spray with the asparagus may result in serious crop injury.
- Select and use types of spray equipment specified for postemergence postharvest applications.

Miscellaneous Tree Food Crops

Labeled Crops: Cactus (prickly pear, dragon fruit, fruit and pads), palm (heart, leaves), palm (oil)

Types of Applications: Those listed in Tree, Vine and Shrubs Crops section

Non-Food Tree Crops

Labeled Crops: Pine, poplar, eucalyptus, all other non-food tree crops

Types of Applications: Those listed in Tree, Vine and Shrubs Crops section

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 7.0 quarts (7.9 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Desirable plants may be protected from the spray solution by using shields or coverings of impermeable materials.
- Do not let spray, drift or mist of this product come into contact with foliage or green bark of established pine trees.

Site Preparation

Use this product for weed control prior to planting non-food tree crops.

Precaution:

- Take precautions to protect non-target plants during site preparation application.

Directed Spray, Spot Treatment, and Wiper Application

Use this product as a post-directed spray and spot treatment, or apply using a wiper applicator, around established poplar, eucalyptus, and all other non-food tree crops.

Oilseeds

Labeled Crops: Borage, buffalo gourd (seed), canola, crambe, flax, jojoba, lesquerella, meadowfoam, mustard (seed), rape, safflower, sesame, sunflower

Use directions for glyphosate tolerant canola are in the Glyphosate Tolerant Crops section of this label.

Types of Applications: Chemical fallow, preplant fallow beds, preplant, at planting, preemergence, hooded sprayer in row middles, shielded sprayer in row middles, wiper application in row middles, postharvest.

Restrictions:

- **Canola**
--Do not apply more than a combined total of 1.5 quarts of this product per acre for all preemergence and shielded sprayer applications.
- **Safflower**
--Do not apply more than a combined total of 2.25 quarts of this product per acre for all preemergence and hooded/shielded sprayer applications per year.
- **Sunflower**
--Do not apply more than a combined total of 1.5 pints of this product per acre for all preplant, preemergence, and hooded/shielded sprayer applications per year.
- For oilseed crops other than sunflowers, do not harvest or feed treated vegetation for eight weeks following application.

- For any crop not listed on this label, make applications at least 30 days prior to planting the next crop.

Preplant, Preemergence, and At-Planting

This product may be applied before, during or after planting oilseed crops. Make broadcast applications prior to emergence of the listed oilseed crops. Wiper applicators or hooded sprayers may be used between the rows once the crop is established.

Tank Mixes: For sunflowers, a tank mixture with pendimethalin may be applied before, during or after planting in conventional tillage systems, into a cover crop, established sod, or in previous crop residue.

Restrictions:

- **Sunflower**

--Do not feed or graze sunflower forage following application of this product.

Postharvest

For postharvest applications, higher application rates may be required for control of large weeds that were growing in the crop at the time of harvest. Tank mixtures of this product with 2,4-D or dicamba may be used provided the product to be tank mixed is registered for use on this use site.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Apply at least 30 days prior to planting any crop not listed on this label.
- **Preharvest Interval:** Do not apply within 7 days of harvest or feeding treated vegetation.

Selective Equipment

Wiper applicators or hooded/shielded sprayers may be used between the rows once the crop is established. See the Selective Equipment part of the Application Equipment and Application Methods section for information on proper use and calibration of this equipment.

Hooded Sprayers (Sunflowers) (For Use in South Dakota Only): This product may be used through hooded sprayers for weed control between the rows of sunflowers. Only hooded sprayers that completely enclose the spray pattern may be used. Leave at least an 8 inch untreated strip over the drill row. For example, if the crop row width is 38 inches, the maximum width of the spray hood will be 30 inches. The maximum tractor speed is 5 mph and the maximum wind speed is 10 mph. Use low drift nozzles. For specific rates of application and instructions for control of various annual and perennial weeds, see the Weed Control tables.

Crop injury may occur when the foliage of treated weeds come into direct contact with leaves of the crop. Do not apply this product when the leaves of the crop are growing in direct contact with target weeds. Droplets, mist, foam or splatter of the herbicide solution that contact the crop will cause discoloration, stunting or destruction.

Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage.

Restrictions:

- Do not apply more than a total of 2.25 quarts per acre per year using hooded sprayer equipment.
- Do not apply more than 1.5 pints of this product per acre per application.
- Sunflowers must be at least 12 inches tall, measured without extending the leaves.
- **Preharvest Interval:** Do not apply within 14 days of harvest.

Preharvest (Safflower and Sunflower Only)

This product provides weed control when applied as a harvest aid to a physiologically mature crop prior to harvest of safflower or sunflower. For safflower, apply up to 2.25 quarts of this product per acre when the

seed has lost its opaque character, approximately 20 to 30 days after the end of flowering of the secondary branches. For sunflower, apply up to 1.5 pints of this product per acre when the backsides of sunflower heads are yellow, bracts are turning brown, and seed moisture content is less than 35 percent.

Restrictions:

- Preharvest Interval: Do not apply within 7 days of harvest or livestock feeding.
- Apply at least 30 days prior to planting any crop not listed on this label.

Pastures

Types of Pasture: Bahiagrass, bermudagrass, bluegrass, brome, fescue, guineagrass, kikuyugrass, orchardgrass, pangola grass, ryegrass, timothy, wheatgrass, (any grass species in the *Gramineae* family except corn, sorghum, sugarcane and those listed in Cereal or Grain Crops section of this label)

Types of Applications: Spot treatment, wiper application, preplant, preemergence, pasture renovation, postemergence weed control (broadcast applications)

Refer to the rate table in the Annual Weeds and Perennial Weeds sections for application rates of this product to specific weeds. This product controls specified annual and perennial grasses and broadleaf weeds when applied as directed.

Preplant, Preemergence and Pasture Renovation

This product may be applied prior to planting or emergence of forage grasses and legumes. In addition, this product may be used to control perennial pasture species listed on this label prior to replanting.

Restrictions:

- If application rates total 2.25 quarts or less per acre, no waiting period between treatment and feeding or livestock grazing is required.
- If the rate is more than 2.25 quarts per acre, remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.
- Crops listed for treatment in this label may be planted into the treated area at any time; for other crops, wait 30 days between application and planting.

Spot Treatment and Wiper Application

This product may be applied as a spot treatment or over the top with wiper applicators in pastures to control tall weeds. Applications may be made in the same area at 30-day intervals.

Restrictions:

- For spot treatment and wiper applications using rates of 2.25 quarts or less per acre, the entire field or any portion of it may be treated.
- When spot treatments or wiper applications are made using rates more than 2.25 quarts per acre, no more than 10 percent of the total pasture may be treated at any one time.
- To achieve maximum performance, remove domestic livestock before application and wait 7 days after application before grazing livestock or harvesting.

Postemergence Weed Control (Broadcast Application)

Apply this product to pastures to suppress competitive growth and seed production of annual weeds and undesirable vegetation. Apply 9 to 12 fl oz of this product per acre for selective weed control in early spring before desirable perennial grasses break dormancy and initiate green growth. A higher rate in the rate range may be used to control tough to control weeds; however, if perennial grasses are no longer dormant, injury will occur. Apply a late fall application after desirable perennial grasses have reached dormancy.

Restrictions:

- If broadcast application is made when plants are not dormant, some stunting of perennial grasses will occur.
- Using a higher rate in the rate range will cause stand reduction.

- There is no required waiting period between application and grazing or harvesting for feed.
- Do not apply more than 2.25 quarts per acre per year onto pasture grasses except for renovation uses as described on this label.
- Wait 30 days after application before planting any crop not listed on this label if replanting is needed due to severe stand reduction.

Coastal Bermudagrass Pastures (Not for Use in California)

Apply this product at 11 fl oz per acre to control annual bluegrass, cheat, crabgrass, henbit, seedling johnsongrass, little barley, oats, Italian ryegrass, field sandbur, sunflower, wheat, and wild mustard and more other winter annual grass and broadleaf weeds in established coastal bermudagrass pastures.

Applications Prior to Spring Growth: Apply this product in either late winter or early spring, but before new coastal bermudagrass growth begins in the spring. Otherwise, new growth of the bermudagrass can be damaged. Remove domestic livestock from the pasture before applying this product. Wait for 60 days after making this application before resuming grazing or harvesting the treated area.

Applications Following First Cutting: Apply this product after the first bermudagrass cutting when the bermudagrass has not yet begun to regrow. Otherwise, regrowth of the bermudagrass can be damaged. Remove domestic livestock from the pasture before applying this product. Wait for 28 days after making this application before resuming grazing or harvesting the treated area.

Restrictions:

- Do not make more than one application per year to any one field.
- Do not make a spring application prior to growth and an application following the first cutting on the field during the same year.

Peanuts (See Miscellaneous Crops)

Pome Fruit

Labeled Crops: Apple, crabapple, loquat, mayhaw, pear (including Oriental pear), quince

Types of Applications: Those listed in Tree, Vine, and Shrub Crops

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 7.0 quarts (7.9 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- **Preharvest Interval:** Do not apply within 1 day of harvest.

Raspberry

(Not for Use in California)

Types of Applications: Preplant (site preparation) broadcast spray, general weed control, middles (between rows of bushes), strips (within rows of bushes), selective equipment (shielded sprayer, wiper applicator), directed spray, spot treatment, perennial grass suppression, cut stump

Apply this product with boom equipment, CDA equipment, shielded sprayer, handheld and backpack wand, lance, orchard gun or with wiper applicator equipment, except as directed.

Apply 12 fl oz to 3.75 quarts of this product per acre according to the rate tables in the Annual Weeds and Perennial Weeds sections of this label. Use a higher rate in the rate range when weeds are stressed, growing in dense populations or are more than 12 inches tall.

Restrictions:

- **Preharvest Interval:** Do not apply within 14 days of harvest.

- Do not transplant raspberries within 3 days of application.
- Do not apply more than 2 gallons of this product per acre per year.
- Do not apply herbicide spray to contact desirable vegetation, including green shoots and foliage.

Safflower (See Oilseeds)

Soybean

Use directions for glyphosate tolerant soybean are in the Glyphosate Tolerant Crops section of this label.

Types of Applications: Those listed in Crops section plus spot treatment.

Preplant, Preemergence and At-Planting

This product may be applied before, during or after planting soybeans. Applications must be made prior to emergence of the crop.

Tank Mixes: Tank mix this product with 2,4-D or dicamba, and apply prior to planting only. Tank mixes of this product with the following active ingredients may be applied prior to crop emergence. The product used must be labeled for application prior to planting or soybean emergence. Apply these tank mixes in 10 to 20 gpa of water. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

acetochlor	flumicloracpentylester	metribuzin
carfentrazone-ethyl	flumioxazin	pendimethalin
chlorimuron-ethyl	fluthiacet-methyl	pyoxasulfone
clethodim	fomesafen	quizalofop-p-ethyl
clomazone	halauxifen-methyl	rimsulfuron
chlorimuron	imazaquin	saflufenicil
cloransulam-methyl	imazethapyr	saflufenacil
dimethenamid	lactofen	sulfentrazone
dimethenamid-p	linuron	thifensulfuron
fluzifop-pbutyl	metolachlor	tribenuronmethyl
flufenacet	s-metolachlor	trifluralin
flumetsulam		

For difficult to control weeds, such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 1.5 pints per acre in these tank mixtures. For other labeled annual weeds, apply 12 to 18 fl oz of this product per acre when weeds are less than 6 inches tall, and 1.5 to 2.25 pints when weeds are more than 6 inches tall.

Spot Treatment

For spot treatments, apply this product prior to initial pod set in soybeans.

Restrictions:

- Do not treat more than 10 percent of the total field area to be harvested.
- Do not allow to drift or spray outside target area. The crop receiving spray in treated area will be killed.

Preharvest

This product provides weed control when applied prior to harvest of soybeans after pod set and all the green color is lost.

Apply at rates given in the annual, perennial and woody brush tables. Avoid excessive seed shatter loss due to ground application equipment.

Restrictions:

- **Preharvest Interval:** Do not apply within 7 days of harvest.

- Do not apply more than 3.75 quarts of this product per acre for preharvest applications.
- Do not apply more than 1.5 quarts of this product per acre by air.
- If more than 1.5 pints of this product is used, do not graze or harvest treated hay or fodder for livestock feed within 25 days of last preharvest application.
- If 1.5 pints of this product or less is used, the grazing restriction is reduced to 14 days after last preharvest application.
- Do not apply to soybeans grown for seed as a reduction in germination or vigor may occur.

Selective Equipment

This product may be applied through shielded applicators, hooded sprayers, wiper applicators or sponge bars in soybeans.

Restrictions:

- **Preharvest Interval:** Do not apply within 7 days of application.
- See the Selective Equipment part of the Application Equipment and Application Methods section of this label for information on proper use and calibration of this equipment.

Stone Fruit

Labeled Crops: Apricot, cherry (sweet, sour), nectarine, olive, peach, plum/prune (all), plumcot

Types of Applications: Those listed in Tree, Vine, and Shrub Crops section plus glyphosate-resistant horseweed

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 7.0 quarts (7.9 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- **Preharvest Interval:** Do not apply within 17 days of harvest.
- Apply only as a directed spray to olive groves.
- Remove suckers and low hanging limbs at least 10 days prior to application.
- Avoid applications near trees with recent pruning wounds or other mechanical injury.
- Apply only near trees that have been planted in the orchard for two years or more.
- **Extreme care must be taken to ensure no part of the peach tree is contacted.**

Strawberry

(Not for Use in California and New York State)

Apply up to 1.5 quarts of this product per acre to control annual and perennial weeds prior to emergence of strawberries. Apply at least three days before transplanting or planting.

Restrictions:

- Avoid contact of herbicide with foliage, green stems, exposed non-woody roots or fruit of crops, desirable plants and trees, because severe injury or destruction may result.
- When applying this product prior to transplanting crops into plastic mulch, take care to remove spray residues of this product from the plastic prior to transplanting otherwise crop injury could occur. Removal of residues may be accomplished by application of 0.5 inch of water either by rainfall or sprinkler irrigation.
- Applications made at emergence will result in injury or death of emerged seedlings.

Sugarcane

Types of Applications: Those listed in Crops section plus spot treatment

Preplant, Preemergence, and At-Planting

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

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Do not apply to vegetation in or around ditches, canals or ponds containing water to be used for irrigation.

Spot Treatment

This product may be applied as a spot treatment in sugarcane. For control of volunteer or diseased sugarcane, make a 1 percent solution of this product in water and spray to wet the foliage of vegetation to be controlled. Volunteer or diseased sugarcane should have at least 7 new leaves.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Avoid spray contact with healthy cane plants since severe damage or destruction may result.
- Do not feed or graze treated sugarcane foliage following application.

Fallow Treatment

This product may be used as a replacement for tillage in fields that are lying fallow between sugarcane crops. This product may also be used to remove the last stubble of ratoon cane. For removal of last stubble of ratoon cane, apply 3 to 3.75 quarts of this product in 10 to 40 gpa of water to new growth having at least 7 new leaves. Allow 7 days or more after application before tillage. Ground or aerial application equipment may be used. Application of up to 2.25 quarts per acre may be made by aerial application in fallow sites where there is sufficient buffer to prevent injury to adjacent crops from drift. Tank mixes with 2,4-D and dicamba may be used provided the product to be tank mixed is labeled for use on sugarcane.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.

Hooded Sprayers

This product may be used through hooded sprayers for weed control between the rows of sugarcane. See additional instructions for using hooded sprayers in the Application Equipment and Application Methods section of the label.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Do not allow treated weeds to come into contact with the crop. Droplets, mist, foam or splatter of the herbicide solution settling on the crop may result in discoloration, stunting or destruction.

Sunflowers (See Oilseeds)

Tree Nuts

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 Applications: Site weed control, middles (between rows of trees, vines or shrubs), strips (in row of trees, vines or shrubs), selective equipment directed spray, spot treatment, perennial grass suppression, cut stump, preplant (site preparation), and broadcast spray.

Restrictions:

• **Tree Nuts**

- Preharvest Interval:** Do not apply within 3 days of harvest.
- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.

• **Coconut**

- Preharvest Interval:** Do not apply within 14 days of harvest.
- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.

Tree, Vine and Shrub Crops

Types of Applications: Site weed control, middles (between rows of trees, vines or shrubs), strips (in row of trees, vines or shrubs), selective equipment (except kiwi), directed spray, spot treatment, perennial grass suppression, cut stump, preplant (site preparation), broadcast spray

NOTE: This section gives general directions that apply to all tree, vine, and shrub crops. See the individual crop sections for instructions, preharvest intervals, precautions and restrictions for specific crops.

Apply with boom equipment, CDA, shielded sprayers, handheld and backpack wands, lances, orchard guns or with wiper applicator equipment except as directed. This product may be applied in middles, strips, and for weed control or perennial grass suppression in established tree fruit and tree nut groves, orchards, berries, and vineyards. This product may also be used for site preparation prior to planting or transplanting these crops. Apply at rates given in the annual and perennial weed and woody brush tables. Use a higher rate in the rate range when weeds are stressed, growing in dense populations, or are more than 12 inches tall. Repeat applications may be made up to a maximum of 8 quarts per acre per year.

Restrictions:

- Exercise extreme care to avoid contact of herbicide solution, spray, drift or mist with foliage or green bark of trunk, branches, suckers, fruit or other parts of trees, canes and vines. Contact of this product with other than matured brown bark can result in serious crop damage or destruction.
- Do not apply when recent pruning wounds or other mechanical injury have occurred.
- Use only shielded or directed sprayers in crops with potential for contact with the crop. Ensure there is sufficient clearance.
- Use only selective equipment (directed spray, hooded sprayer, shielded sprayer, or wiper applicator) for application in strips (within rows of trees) to minimize the potential for overspray or drift of this product onto crops.
- Fully enclosed hooded or shielded sprayers, including top, sides, front, and back, must be used on berry crops. Use only wiper applicators or shielded applicators that prevent all contact of this product with the crop.
- Do not apply within 3 days of transplanting crops.

Middles (Between Rows of Trees)

This product will control or suppress annual and perennial weeds and groundcovers growing between the rows of labeled tree and vine crops. If weeds are under drought stress, irrigate prior to application. Reduced control may result if weeds have been mowed prior to application.

Tank Mixes: A tank mixture of this product plus oxyfluorfen (Goal 2XL 92894-2) may be used for annual weeds in middles between rows of citrus crops, tree fruits, tree nuts and vine crops. Use this mixture when weeds are stressed or growing in dense populations. Application of 12 fl oz to 1.5 pints of this product per acre plus 3 to 12 fl oz of Goal 2XL per acre will control annual weeds with a maximum height of 6 inches, including common groundsel, common lambsquarters, crabgrass, junglerice, redroot pigweed, London rocket, common ryegrass, shepherd's-purse, annual sowthistle, filaree (suppression), horseweed/marestail (*Conyza canadensis*), stinging nettle and common purslane (suppression). This tank mix also controls common cheeseweed (malva) or hairy fleabane with a maximum height or diameter of 3 inches.

This product may be applied between rows of trees in tank mixes with the following active ingredients. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

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

Strips (in Rows of Trees)

This product may be applied in rows of tree or vine crops and may also be tank mixed with the following active ingredients. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

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

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 groundcovers in tree, vine and shrub crops.

For suppression of tall fescue, fine fescue, orchardgrass and quackgrass, apply 6 fl oz of this product in 10 to 20 gpa of water. For suppression of Kentucky bluegrass covers, apply 4.5 fl oz of this product per acre. Do not add ammonium sulfate.

For best results, mow cool season turfgrass covers in the spring to even their height and apply this product three to four days after mowing.

For suppression of vegetative growth and seedhead inhibition of bahiagrass for approximately 45 days, apply 4.5 fl oz of this product in 10 to 25 gpa of water. Apply one to two weeks after full green-up or after mowing to a uniform height of 3 to 4 inches. Apply prior to seedhead emergence.

For suppression up to 120 days, apply 4 fl oz of this product per acre, followed by an application of 3 to 4 fl oz per acre about 45 days later. Make no more than two applications per year.

For burndown of bermudagrass, apply 1.5 pints to 1.5 quarts of this product per acre in 3 to 20 gpa of water. Use this treatment only if reduction of the bermudagrass stand can be tolerated. When burndown is required prior to harvest, allow at least 21 days to ensure sufficient time for burndown to occur.

For suppression of bermudagrass, apply 5 to 12 fl oz of this product per acre east of the Rocky Mountains and 12 fl oz of this product per acre west of the Rocky Mountains. Apply in a total spray volume of 3 to 20 gpa no sooner than one to two 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 regrowth occurs and bermudagrass injury and stand reduction can be tolerated. East of the Rocky Mountains, use rates of 5 to 8 fl oz per acre in shaded conditions or where a lesser degree of suppression is desired.

Cut Stump

Apply this product to freshly cut tree stumps during site preparation or site renovation prior to transplanting tree crops. This product controls regrowth of cut stumps and resprouts of many types of tree species.

- **Citrus Trees:** Calamondin, chironja, citron, citrus hybrids, grapefruit, kumquat, lemon, lime, mandarin (tangerine), orange (all), pummelo, tangelo (ugli), tangor
- **Fruit Trees:** Apple, apricot, cherry (sweet, sour), crabapple, loquat, mayhaw, nectarine, olive, peach, pear, plum/prune (all), quince
- **Nut Trees:** Almond, beechnut, Brazil nut, butternut, cashew, chestnut, chinquapin, filbert (hazelnut), hickory nut, macadamia, pecan, pistachio, walnut (black, English)

Use suitable equipment to apply this product, ensuring coverage of the entire cambium. Cut trees or their resprouts close to the soil surface. Immediately after cutting, apply a 50 to 100 percent solution of this product to the freshly cut surface. Delaying application may result in reduced performance. For best results, apply during periods of active growth and full leaf expansion.

Restrictions

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

Selective Equipment (Except Kiwi)

Shielded and wiper applicators may be used in tree crops and grapes. Refer to the individual crop sections for time interval between application and harvest.

Tropical and Subtropical 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, governors plum, guava, ilama, imbe, imbu, jaboticaba, jackfruit, longan, lychee, mamey apple, mango, mangosteen, marmaladebox (genip), mountain papaya, papaya, noni (Indian mulberry), papaya, pawpaw, persimmon, plantain, pomegranate, pulasan, rambutan, rose apple, sapodilla, sapote (black, mamey, white), Spanish lime, soursop, star apple, sugar apple, surinam cherry, tamarind, tea, ti (roots and leaves), wax jambu

Types of Applications: Those listed in Tree, Vine, and Shrub Crops section plus bananacide (banana only)

Restrictions:

- **Banana, Coffee, Guava, Papaya, Plantain**
 - Preharvest Interval:** Do not apply within 1 day of harvest.
 - In coffee and banana, delay applications three months after transplanting to allow the new coffee or banana plant to become established.

- **Other Tropical or Subtropical Tree Fruit**

- Preharvest Interval:** Do not apply within 14 days of harvest.

- **Bananacide (Banana Only)**

Use this product to destroy banana plants infected with the banana bunchy top virus as well as non-infected banana plants to establish disease free buffers around plantations. Remove all fruit from the plants within the treatment area prior to treatment. Inject 1/25 fl oz (0.75 mL) of this product concentrate per 2 to 3 inches of pseudostem diameter. Make the injection at least one foot above the ground, except for very small plants, which should be injected vertically into the top. Any subsequent regrowth must also be destroyed. Mechanically destroy all plants and mats (or units) adjacent (within a 4 foot radius) to 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 may not show symptoms of the banana bunchy top virus for up to 125 days; therefore, it is critical that the entire mat (or unit) containing the diseased plant be destroyed immediately.

- **Restrictions:**

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

- **Vegetable Crops**

Types of Applications: Chemical fallow, preplant fallow beds, preplant, preemergence, at-planting, prior to transplanting, hooded sprayers in row middles, shielded sprayers in row middles, wiper applicators in row middles, postharvest, directed applications (nonbearing ginseng), over the top wipers (rutabagas only).

- **Restrictions:**

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- When applying this product prior to transplanting crops into plastic mulch, take care to remove residues of this product, which could cause crop injury, from the plastic prior to transplanting. Residues can be removed by a single 0.5 inch application of water, either by natural rainfall or sprinkler system.
- Take care to insure the washwater flushes off the plastic mulch and does not enter transplant holes. Applications made at emergence will result in injury or death to emerged seedlings.
- Avoid contact of herbicide with foliage, green shoots or stems, bark, exposed roots (including those emerging from plastic mulch), or fruit of crops because severe injury or destruction may result. Significant crop injury could result if transplanted seedlings come into contact with freshly sprayed weeds.
- When making preemergence and at-planting applications, applications must be made before crop emergence to avoid severe crop injury.
- Apply before seed germination in coarse sandy soils to further minimize the risk of injury.
- In crops with vines, hooded sprayer, shielded sprayer and wiper applications to row middles must be made prior to vine development otherwise severe injury or destruction may result.
- Unless otherwise specified in the label for this product, treatments with selective equipment including wipers and hooded sprayers must be made at least 14 days prior to harvest.

- Postharvest or fallow applications must be made at least 30 days prior to planting any non-labeled crop. See Application Equipment and Application Methods section of this label for additional information.

Brassica Vegetables

Labeled Crops: Broccoli, broccoli raab (rapini), Brussels sprout, cabbage, cauliflower, cavalo broccolo, Chinese broccoli (gai lon), Chinese cabbage (bok choy), Chinese cabbage (napa), Chinese mustard cabbage (gai choy), collards, kale, kohlrabi, mizuna, mustard greens, mustard spinach, rape greens

Bulb Vegetables

Labeled Crops: Garlic, great-headed garlic, leek, onion (dry bulb and green), shallot, welsh onion

Cucurbit Vegetables and Fruits

Labeled Crops: Chayote (fruit), Chinese waxgourd (Chinese preserving melon), citron melon, cucumber, edible gourd (includes Chinese okra, cucuzza, hechima, hyotan), gherkin, melons (all), *Momordica* spp (includes balsam apple, balsam pear, bittermelon, Chinese cucumber), muskmelon (includes cantaloupe, casaba, crenshaw melon, golden pershaw melon, honey ball melon, honeydew 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 acorn squash, butternut squash, calabaza, hubbard squash, spaghetti squash), watermelon

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- Allow at least three days between application and planting of cantaloupe, casaba melon, crenshaw melon, cucumber, gherkin, gourds, honey ball melon, honeydew melon, mango melon, melons (all), muskmelon, Persian melon, pumpkin, squash (summer, winter), and watermelon.

Leafy Vegetables

Labeled Crops: Amaranth (Chinese spinach), arugula (roquette), beet greens, cardoon, celery, celtuce, chaya, chervil, Chinese celery, corn salad, cress (garden and upland), dandelion, dock (sorrel), dokudami, edible-leaved chrysanthemum, endive (escarole), Florence fennel, garland chrysanthemum, gow kee, lettuce (head and leaf), New Zealand spinach, orach, parsley, purslane (garden and winter), radicchio (red chicory), rhubarb, spinach, Swiss chard, vine spinach, watercress (upland), water spinach

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- For watercress, do not apply within three days of seeding and during the period between seeding and emergence to minimize risk of injury.

Fruiting Vegetables

Labeled Crops: Eggplant, groundcherry (*Physalis* spp.), pepino, pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), tomatillo, tomato

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- For tomato and tomatillo grown on sandy soil, do not use hooded or shielded sprayer applications in row middles because of crop injury potential.
- For eggplant, groundcherry, pepper (all) and tomatillo, do not apply within three days before planting.

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, crowderpea, 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 Applications: Those listed in Crops section (dry beans, peas, lentils and chickpeas only), spot treatment (dry beans, peas, lentils, and chickpeas only)

Spot Application (Dry Beans, Peas, Lentils, Chickpeas Only) (Not for Use in California): This product may be applied as a spot spray to control weeds, such as Canada thistle, quackgrass, mayweed (dog fennel), and milkweed. Apply up to 1.5 pints of this product per acre in dry beans, or apply up to 24.75 fl oz per acre in dry peas, lentils and chickpeas. Apply in 10 to 20 gpa of water through ground spray equipment or use a 2 percent solution in a handheld sprayer. For best results, apply at or beyond bud/heading stage of growth of target weeds. **Note:** The crop receiving the spray in the spot treated area will be killed.

Restrictions:

- Do not apply more than 22.0 fluid ounces (0.77 lb.ai) of this product per acre per single application.
- Do not apply more than 22.0 fluid ounces (0.77 lb.ai) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- **Preharvest Interval:** Do not apply within 7 days of harvest
- Make only one application per year.
- There is at least a 30-day plantback interval between treatment and replanting for any crop not listed in the label for this product.
- Do not feed treated vines and hay from these crops to livestock.
- Do not treat field (feed) peas or cowpeas since these are considered to be grown as livestock feed.
- Do not apply this product to dry beans in California and New York State.
- Do not spray or allow spray to drift outside of the target area in order to avoid unwanted crop destruction.

Spot Application (Dry Peas, Lentils, Chickpeas Only) (For Use in Idaho, Minnesota, Montana, Nebraska, North Dakota, Oregon, South Dakota and Washington Only): This product may be applied as a spot spray to control weeds such as Canada thistle, quackgrass, mayweed (dog fennel), and milkweed. Apply up to 1.5 pints per acre in 10 to 20 gpa of water through ground spray equipment or use a 2 percent solution in a handheld sprayer. For best results, apply at or beyond bud/heading stage or growth of target weeds. **Note:** The crop receiving the spray in the spot treated area will be killed.

Restrictions:

- Do not apply more than 64.0 fluid ounces (2.25 lb.ai) of this product per acre per single application.
- Do not apply more than 64.0 fluid ounces (2.25 lb.ai) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- **Preharvest Interval:** Do not apply within 14 days of harvest.
- Make only one application per year.
- There is at least a 30-day plantback interval between treatment and replanting for any crop not listed in the label for this product.
- Do not feed treated vines and hay from these crops to livestock.
- Do not treat field (feed) peas or cowpeas since these are considered to be grown as livestock feed.
- Do not spray or allow spray to drift outside of the target area in order to avoid unwanted crop destruction.

Root and Tuber Vegetables

Labeled Crops: Arracacha, arrowroot, beet (garden), black salsify, burdock, canna, carrot, cassava (bitter and sweet), celeriac, chayote (root), chervil (turnip-rooted), chicory, Chinese artichoke, chufa,

dasheen (taro), galangal, ginger, ginseng, horseradish, Jerusalem artichoke, Ieren, kava (turnip-rooted), oriental radish, parsley (turnip-rooted), parsnip, potato, radish, rutabaga, salsify, skirret, Spanish salsify, sweet potato, tanager, true yam, turmeric, turnip, wasabi, yacon, yam bean

Directed Application (Nonbearing Ginseng Only): Apply to established stands of nonbearing ginseng only for general weed control. Applications may be made with boom equipment, CDA, shielded sprayers, handheld and backpack wands, lances, and orchard guns or with wiper applicator equipment.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- **Preharvest Interval:** Do not apply within one year of harvest.
- Direct sprays so that there is no contact of this product with the ginseng plant.

Wiper Applicator (Rutabagas Only): Apply over the top for control of tall weeds.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 5.3 quarts (6.0 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- **Preharvest Interval:** Do not apply within 14 days of harvest.
- Droplets, mist, foam or splatter of the solution onto desirable vegetation may result in discoloration, stunting, or destruction.

Vine Crops

Labeled Crops: Grapes (raisin, table, wine), hops, kiwi fruit, passion fruit

Types of Applications: Those listed in Tree, Vine, and Shrub Crops section

In the northeast and Great Lakes regions, make applications prior to the end of bloom stage of grapes to avoid injury, or make applications with shielded sprayers or wiper equipment.

Restrictions:

- Do not apply more than 3.3 quarts (3.71 lb ai) of this product per acre per single application.
- Do not apply more than 7.0 quarts (7.9 lbs.lb a.e.) of this product per acre per year.
- Retreatment Interval (RTI): 7 days.
- **Preharvest Interval:** Do not apply within 14 days of harvest.
- Do not use selective equipment in kiwi.
- Do not apply when green shoots, canes or foliage are in the spray zone.

Glyphosate Tolerant Crops

The following instructions include all applications that can be made onto glyphosate tolerant crops during the complete cropping year. Do not combine these instructions with other instructions in the Crops section of this label made for crop varieties that do not contain the glyphosate tolerant genes.

Use this product for postemergence application only on crop varieties designated as containing the glyphosate tolerant genes.

- Applying this product to crop varieties not designated as glyphosate tolerant will result in severe crop injury and yield loss. Avoid contact with foliage, green stems, or fruit of crops, or any desirable plants that do not contain the glyphosate tolerant genes since severe injury or destruction will result.
- Glyphosate tolerant crop varieties must be purchased from an authorized seed supplier. Crop safety and weed control performance is not warranted when this product is used in conjunction with "brown bag" or seed saved from previous year's crop production and replanted.

- The glyphosate tolerant designation indicates that the crop variety contains a patented gene that provides tolerance to glyphosate herbicides. Information on glyphosate tolerant crop varieties may be obtained from your seed supplier.

ATTENTION: Avoid drift. Use extreme care when applying this product to prevent injury to desirable plants and crops which do not contain the glyphosate tolerant genes.

See Product Information and Application Directions sections of this label for essential use directions and restrictions for the application of this product.

When applied as specified in this label, this product controls the annual and perennial grasses and broadleaf weeds listed. Observe the maximum application rates and crop stage timings specified for individual glyphosate tolerant crops.

Ground Broadcast Application

Apply this product in 5 to 20 gpa of spray solution. Avoid spraying a fine mist by selecting the proper nozzle and spray pressure. For best results when using ground application equipment, use flat spray nozzles and check for even distribution of spray droplets.

Aerial Application

All treatments in this section can be made using aerial application equipment provided that the applicator follows all precautions and restrictions listed in this label. Apply this product in 3 to 15 gpa of water. Using appropriate buffer zones helps prevent injury to adjacent vegetation.

Attention: Avoid drift, Use extreme care when applying this product to prevent injury to desirable plants and crops that do not contain a glyphosate-tolerant gene.

Tank Mixes

Using other herbicides, insecticides, fungicides, micronutrients or foliar fertilizers in a tank mix with this product may result in reduced weed control or crop injury. For best results, do not apply this product as a postemergence (in-crop) application over the top of glyphosate tolerant crops unless otherwise specified on this product label. Always read and follow all of the label directions and precautions for all of the products in the tank mix. Under certain conditions, at certain crop growth stages, and/or under other circumstances, some tank mix products have the potential to cause crop injury. Read the label for all tank mix partners prior to using them to determine the potential for crop injury. Predetermine the compatibility of all tank mix products in the carrier by mixing small proportional quantities of each before mixing them to use in an application. A tank mix of this product with other herbicides has the potential to cause incompatibility, antagonism, or a reduction in product efficacy. All possible tank mix partners have not been tested for compatibility or performance. See the Mixing Directions section of this label.

A nonionic surfactant may be added to the spray solution for application to glyphosate tolerant crops unless otherwise directed on this label. Adding certain surfactants to this product may result in some crop response, including leaf speckling or leaf necrosis due to the surfactant added to the spray mix. See the specific use directions for each crop in this label or in supplemental labeling for additional precautions or restrictions. See the Mixing Directions section of this label.

Ammonium sulfate may also be added to spray solutions of this product for application to glyphosate tolerant crops. See the Mixing Directions section of this label.

Sprayer Preparation

Thoroughly clean the spray tank and all lines and filters to eliminate potential contamination from other herbicides prior to mixing and applying this product. Follow the cleaning procedures specified on the label for the product(s) previously used.

Note: The following directions are based upon 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, a preplant burndown treatment of this product is required to control existing weeds prior to crop emergence. Some weeds, such as black nightshade, broadleaf signalgrass, sicklepod, Texas panicum, sandbur,

annual morningglory, wooly cupgrass, shattercane, wild proso millet, burcucumber, and giant ragweed with multiple germination times, or suppressed (stunted) weeds, may require a second application of this product for complete control. Apply the second application after some regrowth has occurred and at least 10 days after a previous application of this product.

The application rates on this label to control tough weeds, or those specified on supplemental labeling for this product, supersede rates in the Annual Weeds and Perennial Weeds sections of this label.

Product Use Restrictions

- Do not apply more than the maximum application rates specified on this label.
- Maximum application rates apply to the use of this product combined with the use of all other glyphosate-containing products, whether applied separately or in 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 specified maximum rate.

Glyphosate Tolerant Alfalfa

Types of Applications: Preplant, at-planting, preemergence, postemergence (in-crop)

See the Glyphosate Tolerant Crops section of this label for general precautionary instructions for use in glyphosate tolerant crops.

Maximum Allowable Application Rates

Application Type	Rate (per acre)
preplant preemergence at-planting	1.5 qt
combined total for all applications including preplant during year of establishment	6 qt
combined total for in-crop applications on newly established and established stands	2.25 qt

Preplant, Preemergence, and At-Planting

This product may be applied before, during or after planting glyphosate tolerant alfalfa.

Postemergence (In-Crop)

This product may be applied postemergence to glyphosate tolerant alfalfa from emergence stage to 5 days prior to cutting. Apply this product after weeds have emerged, but before alfalfa growth or regrowth interferes with spray coverage of the target weeds to maximize crop yield and quality potential of forage and hay.

When applied as directed, this product controls the annual and perennial weeds listed on this label. It will also suppress or control parasitic weed dodder (*Cuscuta* spp.) in glyphosate tolerant alfalfa. More than one application may be needed for complete control.

New Stand Establishment (Seeding Year): Up to 10 percent of the seedlings might not contain a glyphosate tolerant gene due to the biology and breeding constraints of alfalfa. These seedlings will not survive after the first application of this product. Make a single application of 1.5 pints per acre or before the four trifoliolate growth state in order to eliminate the undesirable effects of stand gaps created by this loss of plants.

Application Types	Rate (pints/acre)
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Prior to First Cutting	
emergence up to 4 trifoliolate leaves	1.5 – 3
5 trifoliolate leaves up to 5 days before first cutting	<3
After First Cutting	
in-crop application per cutting up to 5 days before cutting	<3

Tank Mixes: Apply up to 1.5 quarts of this product per acre postemergence (in-crop) over the top of glyphosate tolerant alfalfa in the seeding year in a tank mix with the products listed below. Apply after weeds have emerged but before alfalfa growth or regrowth interferes with spray coverage of the target weeds. Ensure that the specific product used is labeled for postemergence (in-crop) application to alfalfa. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

acetochlor	imazethapyr
clethodim	sethoxydim ¹
imazamox ¹	quizalfop-p-ethy

¹Applying imazamox or sethoxydim to seedling alfalfa may result in a temporary reduction in growth. Do not added crop oil concentrate or methylated seed oil in a tank mix with either of these products as unsatisfactory crop injury could result.

Established Stands (Non-Seeding Year): Apply up to 1.5 quarts of this product per acre for in-crop applications of established stands (non-seeding year) of glyphosate tolerant alfalfa. Apply per cutting up to five days before cutting.

Tank Mixes: Apply this product postemergence (in-crop) over the top of established stands of glyphosate tolerant alfalfa in a tank mix with the products listed below, according to the growing condition of the crop. Ensure that the specific product used is labeled for postemergence (in-crop) application to alfalfa. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

Actively Growing Alfalfa: Apply up to 1.5 quarts of this product with the products listed below to control emerged annual grasses and broadleaf weeds when alfalfa is actively growing.

acetochlor	imazethapyr
clethodim	sethoxydim ¹
imazamox ¹	quizalfop-p-ethy

¹Do not added crop oil concentrate or methylated seed oil in a tank mix with imazamox or sethoxydim as unsatisfactory crop injury could result..

Dormant Alfalfa: Apply up to 1.5 quarts of this product with the products listed below to control emerged annual grasses and broadleaf weeds when alfalfa is dormant. Apply when daily temperatures remain above freezing.

imazamox ¹	pronamide
imazethapyr	propyzamide
metribuzin ¹	

¹Do not added crop oil concentrate or methylated seed oil in a tank mix with imazamox or metribuzin as unsatisfactory crop injury could result.

Restrictions:

- Do not apply more than 44.0 fluid ounces (1.54 lb ai) per acre for any single in-crop application of this product.
- Retreatment Interval (RTI): 7 days.
- **Preharvest Interval:** Do not apply within 5 days of grazing or cutting and feeding of forage and hay.
- Do not apply more than 1.5 quarts of this product per acre for any single in-crop application.
- Do not apply more than a total of 2.25 quarts per acre per year for the combined total of all in-crop applications in newly established (seeding year) and established stands (non-seeding year).
- There must be a minimum of 7 days between sequential applications.

- Do not apply to frozen or snow covered ground.
- Remove domestic livestock before applying this product.
- If glyphosate tolerant alfalfa is grown with a companion or cover crop, or it is overseeded with a second species in-crop (over the top), applying this product will eliminate the non-glyphosate tolerant species.

Glyphosate Tolerant Canola Hybrids Grown for Seed (Not for Use in California)

See the Glyphosate Tolerant Crops section of this label for general precautionary instructions for use in glyphosate tolerant Crops.

Types of Applications: Preplant, preemergence, at-planting, postemergence

Restrictions:

- Maximum quantity of this product that may be applied for all preplant, at-planting and preemergence applications per single application is 44.0 fluid ounces (1.54 lbs.lb a.e.) per acre.
- Maximum quantity of this product that may be applied for all preplant, at-planting and preemergence applications combined is 44.0 fluid ounces (1.54 lbs.lb a.e.) per acre per year.
- Retreatment Interval (RTI): 10 days.
- Do not combine an application on glyphosate tolerant canola grown for seed with an application for weed control in glyphosate tolerant canola using this product or any other glyphosate-containing product.
- Apply this product only on canola that contains a glyphosate tolerant gene. Severe crop injury and yield loss will result if this product is applied to canola that is not designated as glyphosate tolerant.

Maximum Allowable Application Rates

Application Type	Rate (pints/acre)
preplant preemergence at-planting	3
total all in-crop applications	1.5

Preplant, Preemergence, and At-Planting

Apply this product using aerial or ground application equipment before, during, or after planting canola. In no-till and stale seedbed systems, control existing weeds with a burndown treatment before canola emerges. Use 12 fl oz to 1.5 pints of this product per acre in a preplant burndown application.

Postemergence

Apply this product in ground broadcast equipment to control non-glyphosate-tolerant canola pollen parental line(s) in hybrid canola seed production fields containing both a glyphosate tolerant canola line(s) and a non-glyphosate tolerant line(s). Control the non-glyphosate-tolerant pollen parental line(s) by applying 12 fl oz to 1.5 pints of this product per acre after pollination is complete. Non-glyphosate-tolerant pollen parental line(s) may be controlled by sequential applications.

Restrictions:

- Do not apply more than a total of 1.5 pints per acre if using sequential applications.
- Do not make sequential applications less than 5 days apart.

Glyphosate Tolerant Canola (Spring Varieties)

See the Glyphosate Tolerant Crops section of this label for general precautionary instructions for use in glyphosate tolerant crops.

Types of Applications: Preplant, at-planting, preemergence, postemergence (in-crop), postemergence (in-crop) in hybrid seed production only

Glyphosate tolerant spring canola is defined as glyphosate tolerant canola varieties that are seeded in the spring, harvested in the fall, and do not enter a winter dormancy period.

Maximum Allowable Application Rates

Application Type	Rate (pints/acre)
preplant preemergence at-planting	3
total in-crop applications from emergence to 6-leaf	1.5

Preplant, Preemergence and At-Planting

Apply before, during, or after planting glyphosate tolerant spring canola.

Restrictions:

- Do not apply more than 1.5 quarts of this product per acre per year for all total of preplant, preemergence and at-planting applications.

Postemergence (In-Crop)

Apply this product as a postemergence (in-crop) application to glyphosate tolerant spring canola from emergence through the 6-leaf stage of development. Applications made during bolting or flowering of canola may result in crop injury or yield loss. To maximize yield potential, make applications early to eliminate competing weeds.

Single Application: Apply 12 to 18 fl oz per acre no later than the 6-leaf stage for the control of annual weeds. Avoid overlapping applications that may result in temporary yellowing, delayed flowering, and/or growth reduction. Similar injury may result when applications of more than 12 fl oz per acre are applied after the 4-leaf stage.

Sequential Application: Apply 12 fl oz per acre to 1- to 3-leaf canola followed by a sequential application at a minimum interval of 10 days, but not later than the 6-leaf stage. Sequential applications are required for early emerging annual weeds and perennial weeds, such as Canada thistle and quackgrass, or whenever more than one application is needed for adequate weed control.

Restrictions:

- **Preharvest Interval:** Do not apply within 60 days of harvest.
- Do not apply more than two in-crop (over the top) broadcast applications from crop emergence through the 6-leaf stage of development.
- Do not apply more than 4.5 pints of this product per acre for all in-crop applications.

Postemergence (In-Crop) in Hybrid Seed Production Only

This application is for use only in hybrid canola seed production of spring and winter varieties. Do not apply this product on canola grown for food or feed.

Apply 12 fl oz to 1.5 pints of this product per acre from emergence until pollination begins. Application may also be made after pollination is complete, but avoid applications during active pollination. This will control non-glyphosate tolerant canola pollen parental line(s) in hybrid canola seed production fields containing both glyphosate tolerant canola line(s) and non-glyphosate tolerant line(s).

Restrictions:

- Do not apply more than 1.5 pints of this product per acre in sequential applications to control non-glyphosate tolerant pollen parental line(s).
- Do not make sequential applications less than 5 days apart.

- Do not apply more than a total of 1.5 pints of product per acre for all postemergence (in-crop) applications in hybrid canola seed production fields, including application for weed control and control of non-glyphosate tolerant canola.

Glyphosate Tolerant Canola (Winter Varieties)

See the Glyphosate Tolerant Crops section of this label for general precautionary instructions for use in glyphosate tolerant crops.

Types of Applications: Preplant, at-planting, preemergence, postemergence (in-crop)

Glyphosate tolerant winter canola is defined as glyphosate tolerant canola varieties that are seeded in the early fall, harvested the following spring or winter, and are intended to enter a cold period dormancy in the winter.

Maximum Allowable Application Rates

Application Type	Rate (quarts/acre)
preplant preemergence at-planting	1.5
total in-crop applications from emergence to canopy closure or prior to bolting in the spring	

Preplant, Preemergent and At-Planting

Apply before, during, or after planting glyphosate tolerant winter canola.

Restrictions:

- Do not apply more than 1.5 quarts of this product per acre per season for all total of preplant, preemergence and at-planting applications.

Postemergence (In-Crop)

Apply this product as a postemergence application to glyphosate tolerant winter canola from emergence to canopy closure in the fall and prior to bolting in the spring. Applications made during or after bolting may result in crop injury or yield loss. To maximize yield potential, make applications early to eliminate competing weeds.

A sequential application of this product may be necessary to control some weeds with multiple germination times, suppressed (stunted) weeds, or weeds that have overwintered. Make the second application after some regrowth has occurred and at least 60 days after the previous application of this product.

Single Application: Apply 18 fl oz to 1.5 pints per acre in the fall when weeds are small and actively growing. Use the higher rate in the rate range when weed densities are high, when weeds have overwintered, or when weeds become large and well established. Applying more than 18 fl oz per acre prior to the 6-leaf stage may result in reduced crop growth in the fall. Avoid overlapping applications that may result in temporary yellowing and growth reduction.

Sequential Application: Apply 12 fl oz to 1.5 pints per acre to 2-leaf or larger canola in the fall followed by a sequential application at the same rate at a minimum interval of 60 days. Make the sequential application before bolting in the spring. Sequential applications are required for early emerging annual weeds and winter emerging weeds such as downy brome, jointed goatgrass and ryegrass, and for weeds

that have overwintered. This product controls or suppresses most perennial weeds; however, for some perennial weeds, sequential applications may be required to reduce competition with the crop.

Restrictions:

- **Preharvest Interval:** Do not apply within 60 days of harvest.
- Do not apply more than two in-crop (over the top) broadcast applications from crop emergence up to the onset of bolting.
- Do not apply more than 1.5 pints of this product per acre per year (Fall or Spring) for all in-crop applications .
- Reduced crop growth in the fall may result if more than 18 fl oz per acre is applied prior to the 6-leaf stage.
- No waiting period is required between application and open grazing of livestock.

**Glyphosate Tolerant Corn
(Not for Use in California)**

Types of Applications: Preplant, at-planting, preemergence, postemergence (in-crop), spot treatment, postharvest

Using this product as an in-crop (over the top) application at the specified rates on corn other than corn hybrids tolerant to glyphosate may cause crop injury and reduced yields.

Maximum Allowable Application Rates

Application Type	Rate (per acre)
Total preplant, at-planting preemergence application	3.75 qt
total in-crop applications from emergence through 48-inch corn	2.25 qt (2.25 pt maximum single application)
combined total per year for all applications	6 qt

Preplant, Preemergence, and At-Planting

Apply this product alone or in a tank mix before, during, or after planting.

Tank Mixes: When applying this product in a tank mix, choose one of the active ingredients listed below as the tank mix partner. The specific product used must be labeled for application prior to emergence of corn. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label. Apply the tank mix in 10 to 20 gpa of water or in 10 to 60 gpa of nitrogen.

2,4-D
acetochlor
atrazine
bicyclopyrone
cafentrezone-ethyl
clopyralid
dicamba
diflufenzopyr
dimethenamid

dimethenamid-P
flufenacet
flumetsulam
flumiclorac
pentylester
fluthiacet-methyl
isoxaflutole
linuron
mesotrione

metolachlor
metribuzin
pendimethalin
pyroxasulfone
rimsulfuron
saflufenacils-metolachlor
tembotrione
thiencarbazone-methyl
thifensulfuron

Restriction:

- Do not apply more than a total of 3.75 quarts per acre per year for all total of preplant, preemergence, and at-planting applications combined.

Precaution:

- Apply a postemergence application of this product for maximum weed control following the use of the preemergence residual products listed above.

Postemergence (In-Crop)

Apply this product alone or in a tank mix over the top of corn hybrids tolerant to glyphosate. Apply from emergence through V8 stage (8 leaves with collars) or until corn is 30 inches tall (free standing), whichever comes first. Use drop nozzles for optimum spray coverage and weed control when corn is 24 to 30 inches high. For corn 30 to 48 inches (free standing), apply with ground equipment only with drop nozzles aligned to avoid spraying into the whorls of the corn plants. Do not apply more than 2.25 pints of product per acre in a single in-crop application on corn up to 48 inches high. Do not apply more than 2.25 quarts of product per acre per growing year in sequential in-crop applications to corn from emergence through 48 inches high.

This product controls annual grasses and broadleaf weeds listed on the label when applied as directed. One or more applications of this product controls or suppresses many perennial grasses and broadleaf weeds. Make a postemergence application of 18 fl oz to 1.5 pints of this product per acre before weeds are more than 4 inches in height or before they become competitive with the crop. Make a sequential application of this product at 18 fl oz to 1.5 pints per acre before weeds are more than 4 inches in height if new flushes of weeds occur.

Tank Mixes: When applying this product in a tank mix, choose one of the active ingredients listed below as the tank mix partner. The specific product used must be labeled for application postemergence (in-crop) to corn. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

2,4-D	diflufenzopyr	nicosulfuron
acetochlor	flumetsulam	rimsulfuron
atrazine	flumiclorac pentyl ester	s-metolachlor
bicyclopyrone	fluroxypyr	tembotrione
bromoxynil	halosulfuron-methyl	thiencarbazone-methyl
cafentrezone-ethyl	isoxaflutole	thifensulfuron-methyl
clopyralid	mesotrione	topramezone
dicamba	metolachlor	

Tank Mix Partner	Maximum Height of Corn at Application (Inches)
acetochlor	11
acetochlor+atrazine	
atrazine	12

Restrictions:

- Do not make applications less than 10 days apart for in-crop weed control.
- **Preharvest Interval:** Do not apply within 50 days of corn forage or grain harvest.

Preharvest: Apply this product at rates up to 1.5 pints per acre for annual and perennial weed control prior to harvest. Apply at 35 percent grain moisture or less, ensuring that maximum kernel fill is complete and the corn is physiologically mature (black layer formed).

Restrictions:

- **Preharvest Interval:** Do not apply within 7 days of harvest or feeding corn stover or grain.
- Do not make a preharvest application if the combined total of previously applied over the top or drop nozzle applications is more than 1.5 quarts of this product per acre.

Postharvest: Apply this product for weed control after harvesting the crop. A higher rate in the rate range may be required to control large weeds growing in the crop at the time of harvest. Tank mixes with 2,4-D or dicamba may be used.

Restrictions:

- **Preharvest Interval:** Do not apply within 7 days of harvest or feeding treated vegetation.

Glyphosate Tolerant Cotton (Not for Use in Arizona)

See the Glyphosate Tolerant Crops section of this label for general precautionary instructions for use in glyphosate tolerant crops.

Types of Applications: Preplant, at-planting, preemergence, postemergence (in-crop), selective equipment (in-crop), and preharvest

Do not use this product on glyphosate tolerant cotton in New York State.

Maximum Allowable Application Rates

Application Type	Rate (quart/acre)
preplant preemergence at-planting	3.75
maximum preharvest	1.5
total all in-crop applications from ground cracking to layby	2.75
combined total all in-crop applications from emergence through harvest	4.25
combined total for all applications	6

Preharvest Interval: Do not apply within 7 days before harvest.

Preplant, Preemergence and At-Planting

Apply this product before, during, or after planting glyphosate tolerant cotton.

Tank Mixes: Tank mix this product with 2,4-D or dicamba and apply it prior to planting only. The active ingredients listed below may be tank mixed with this product and applied prior to crop emergence. Ensure that the specific product used is labeled for application prior to crop emergence. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

acetochlor
clomazone
diuron
flumioxazin
fluometuron

fomesafen
metolachlor
monosodium acid methanearsonate
norflurazon
pendimethalin

prometryn
pyrithiobac-sodium
saflufenacil
s-metolachlor
trifloxysulfuron-sodium

Restrictions:

- Do not apply more than 3.75 quarts per acre per year for all combined total of preplant, preemergence, and at-planting applications.

Postemergence (In-Crop)

Apply up to 1.5 pints per acre per application over the top of glyphosate tolerant cotton (in-crop) from cracking until the 4-leaf (node) stage of development (until the fifth true leaf reaches the size of a quarter).

Tank Mixes: The active ingredients listed below may be tank mixed with this product and applied over the top of glyphosate tolerant cotton up to the 4-leaf stage. Ensure that the specific product used is labeled for application prior to crop emergence. Read and follow all label directions for all products in the tank mixture. Use according to the most restrictive precautionary statements for each product in the tank mixture.

acetochlor	monosodium acid	pyrithiobac-sodium
clethodim	methanearsonate	quizalofop-p-ethyl
flaziflop-p-butyl	norflurazon	sethoxydim
fluometuron	pendimethalin	s-metolachlor
metolachlor	prometryn	trifloxysulfuron-sodium

Salvage Treatment: Apply after the 4-leaf stage of development and only where weeds threaten to cause the loss of the crop. Apply 1.5 pints per acre either as an over the top application or as a post-directed treatment sprayed higher on the cotton plants and over the weeds. **Note:** A salvage treatment will result in significant boll loss, delayed maturity and/or yield loss. Do not apply more than one salvage treatment per year.

Precaution:

- Over the top applications made after the 4-leaf (node) development stage may result in boll loss, delayed maturity and/or yield loss.

Restrictions:

- Do not make more than two over the top broadcast applications from crop emergence through the 4-leaf (node) stage of development.
- Sequential over the top or post-directed applications in-crop must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications.
- Do not add additional surfactant or additives containing surfactant (other than those contained in any tank mix product) to this product for over the top application to glyphosate tolerant cotton.

Selective Equipment (In-Crop)

Apply this product using precision post-directed or hooded sprayers to glyphosate tolerant cotton through layby using up to 1.5 pints per acre per application. Use post-directed equipment that directs the spray to the base of the cotton plants. To avoid contact of the herbicide spray with leaves of the cotton plant to the maximum extent possible, maintain a low spray pressure (less than 30 lb psi) and place the nozzles in a low position. This directs a horizontal spray pattern under the leaves of the cotton plant and onto the weeds in the row. For best results, apply while weeds are small and less than 3 inches in height.

Tank Mixes: The products listed below may be tank mixed with this product and applied in-crop using precision post-directed or hooded sprayers. Ensure that the specific product used is labeled for application postemergence (in-crop) to cotton. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

acetochlor	fomesafen	pendimethalin
carfentrazone-ethyl	linuron	prometryn
clomazone	metolachlor	pyrithiobac-sodium
diuron	monosodium acid methanearsonate	s-metolachlor
flumioxazin	norflurazon	trifloxysulfuron-sodium
fluometuron		

Restrictions:

- **Preharvest Interval:** Do not apply within 7 days of harvest.
- Do not make more than two applications from the 5-leaf stage through layby.
- Sequential over the top or post-directed applications in-crop must be at least 10 days apart and cotton must have at least two nodes of incremental growth between applications.

Preharvest

This product may be applied for preharvest annual and perennial weed control after 20 percent of boll crack. Applying this product will not enhance the performance of harvest aids when applied to glyphosate tolerant cotton.

Restrictions:

- **Preharvest Interval:** Do not apply within 7 days of harvest.
- Do not apply more than 1.5 quarts of this product per acre as a preharvest application.
- Do not apply this product preharvest to crops grown for seed as a reduction in germination or vigor may occur.
- Do not add additional surfactant or additives containing surfactant (other than those contained in any tank mix product) to this product for preharvest application to glyphosate tolerant cotton.
- Using this product according to label directions is expected to result in normal growth of glyphosate tolerant cotton. However, due to the sensitivity of cotton fruiting to various environmental conditions, agronomic practices, and other factors, it is impossible to eliminate all risks associated with this product. In some cases, these factors can result in boll loss, delayed maturity and/or yield loss even when applications are made according to label directions.

Attention: Using this product in accordance with label directions is expected to result in normal growth of glyphosate tolerant cotton. It is impossible to eliminate all risks associated with this product due to the sensitivity of cotton fruiting to various environmental conditions, agronomic practices and other factors, even when applications are made according to label directions. In some instances, these factors can result in boll loss, delayed maturity and/or yield loss.

Glyphosate Tolerant Cotton (For Use in Arizona Only)

See the Glyphosate Tolerant Crops section of the product label for general precautionary instructions for use in glyphosate tolerant Crops.

Types of Applications: Preplant, at-planting, preemergence, over the top, selective equipment, preharvest

Maximum Allowable Application Rates

Application Type	Rate (quart/acre)
preplant preemergence at-planting	3.75
maximum preharvest	1.5
total all in-crop applications from ground cracking to layby	2.75
total in-crop over the top from ground cracking to 4-leaf stage	2.25
total in-crop applications using selective equipment through layby	1.5
combined total for all applications	6

Restrictions:

- **Preharvest Interval:** Do not apply within 7 days before harvest.
- Do not make more than two over the top broadcast applications from crop emergence through the 4-leaf (node) development stage.
- Do not make more than two post-directed applications from the 5-leaf stage through layby.
- There must be 10 days between sequential in-crop over the top or post-directed applications of this product. Cotton must also have at least two nodes of incremental growth between applications.

- Do not apply more than the maximum label rates of this product. Doing so will result in boll loss, delayed maturity and/or yield loss.
- The maximum use rates on this label apply to the rates of this product combined with the use of all other glyphosate-containing products, applied separately or as a tank mix. Calculate the application rates and ensure that the total use of this and other glyphosate-containing products does not exceed the specified maximum use rate.

Preplant, Preemergence, and At-Planting

Apply this product before, during, or after planting glyphosate tolerant cotton.

Over the Top

Apply up to 1.5 pints of this product per application using aerial or ground application equipment. Make this postemergence application to glyphosate tolerant cotton from the ground cracking stage until the 4-leaf (node) development stage (until the fifth true leaf reaches the size of a quarter).

Restrictions:

- Do not apply more than 1.5 pints of this product per acre in any single over the top broadcast application.
- Do not apply more than 2.25 quarts of this product per acre for combined over the top applications between ground cracking until the 4-leaf (node) stage.

Selective Equipment

Apply this product using precision post-directed or hooded sprayers to glyphosate tolerant cotton through layby using up to 1.5 pints per acre per application. Up to 1.5 quarts of this product per acre may be used in sequential in-crop applications using selective equipment. Use post-directed equipment that directs the spray to the base of the cotton plants. To avoid contact of the herbicide spray with leaves of the cotton plant to the maximum extent possible, maintain a low spray pressure (less than 30 lb psi) and place the nozzles in a low position. This directs a horizontal spray pattern under the leaves of the cotton plant and onto the weeds in the row. For best results, apply while weeds are small and less than 3 inches in height.

Restrictions:

- Do not apply more than a total of 2.75 quarts of this product per acre as a combined in-crop over the top plus selective equipment applications

Salvage Treatment: Apply up to 2.25 pints of this product per acre after ground cracking stage through layby when weeds threaten to cause the loss of the crop. Make the application either as an over the top or as a post-directed treatment sprayed higher on the cotton plants and over the weeds. **Note:** Crop tolerance of glyphosate tolerant cotton has not fully been tested at this application rate. A salvage treatment will result in significant boll loss, delayed maturity and/or yield loss. Do not apply more than two salvage treatments per year.

Restrictions:

- Do not apply more than a total of 2.75 quarts per acre of this product in a combined in-crop applications from cracking to layby.

Preharvest

This product may be applied for preharvest annual and perennial weed control as a broadcast application after 20 percent of boll crack. This product does not enhance the performance of harvest aids when applied to glyphosate tolerant cotton.

Restrictions:

- **Preharvest Interval:** Do not apply within 7 days of harvest.
- Do not apply more than 1.5 quarts of this product using either aerial or ground application equipment.
- Do not apply this product preharvest to glyphosate tolerant cotton grown for seed.

Attention: Use this product as an over the top or directed application onto cotton that is designated as glyphosate tolerant. If cotton varieties not designated as glyphosate tolerant are sprayed with this product, severe injury or death will result. Avoid contact of herbicide with foliage, green stems, or fruit of crops, or any desirable plants and trees other than crops with a glyphosate tolerant genes as severe injury or destruction will result.

Glyphosate Tolerant Cotton (Not for Use in Arizona)

The use directions in this section apply only to varieties marked as Glyphosate Tolerant cotton. If this product is applied over the top of cotton other than Glyphosate Tolerant cotton, crop injury and reduced yields will result. Do not combine the directions in this section with the directions in the section for Cotton with Glyphosate Tolerant Gene or with any other Glyphosate Tolerant cotton or Glyphosate Tolerant cotton use directions on other glyphosate-containing products. If this product drifts onto adjacent fields of post 4-leaf (node) Glyphosate Tolerant cotton, extensive crop injury, including boll loss, delayed maturity and/or yield loss will occur.

Types of Applications: Preplant, at-planting, preemergence, postemergence (in-crop), preharvest

Maximum Allowable Application Rates

Application Type	Rate (quart/acre)
preplant preemergence at-planting	3.75
total all in-crop applications from cracking to 60 percent open bolls	4.5
total all in-crop applications between layby and 60 percent open bolls	1.5
total all in-crop applications from 60 percent open bolls to 7 days prior to harvest	1.5
total all in-crop applications from emergence through harvest	4.25
combined total for all applications	6

Preplant, Preemergence and At-Planting

Apply this product before, during, or after planting Glyphosate Tolerant cotton.

Tank Mixes: Prior to planting, tank mix with 2,4-D or Clarity only. The active ingredients listed below may be tank mixed with this product for application prior to crop emergence. Ensure that the specific product used is labeled for application prior to emergence of the crop. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

acetochlor
clomazone
diuron
flumioxazin
flumeturon

fomesafen
metolachlor
norflurazon
pendimethalin
prometryn

pyritiobac-sodium
saflufenacil
s-metolachlor
monosodium acid methanearsonate
trifloxysulfuron-sodiuml

Restrictions:

- Do not apply more than 3.75 quarts per acre per year for all combined total of preplant, preemergence, and at-planting applications.

Postemergence (In-Crop)

Apply this product to Glyphosate Tolerant cotton to control annual grasses and broadleaf weeds listed on this label. Eliminate competing weeds early to maximize yield potential. One or more applications of this product will control or suppress many perennial weeds. For best results, initially apply 1.5 pints per acre on 1- to 3-inch tall annual grass and broadleaf weeds. Apply this product at up to 2.25 pints per acre per application using ground application equipment. More thorough weed coverage may be achieved by using post-directed spray equipment.

Tank Mixes: The active ingredients listed below may be tank mixed with this product and applied postemergence (in-crop) over the top of Glyphosate Tolerant cotton. Ensure that the specific product used is labeled for application prior to emergence of the crop. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

acetochlor	fomesafen	pyrithiobac-sodium
clomazone	metolachlor	saflufenacil
diuron	norflurazon	s-metolachlor
flumioxazin	pendimethalin	monosodium acid methanearsonate
flumeturon	prometryn	trifloxysulfuron-sodium

The active ingredients listed below may be tank mixed with this product and applied postemergence (in-crop) using precision post-directed or hooded sprayers. Ensure that the specific product used is labeled for application prior to emergence of the crop. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

2-pyridinesulfonamide	chlorimuron	MCPA 2-ethylhexyl ester
bromoxynil octanoate	fluroxypyr-meptyl	pendimethalin
diuron	flumioxazin	prometryn
carfentrazone-ethyl	linuron	pyrithiobac-sodium

Precaution:

- Applications above 1.5 pints per acre as an in-crop application made alone or with the addition of other crop chemicals containing surfactants as a crop response including leaf speckling or leaf necrosis may occur.

Restrictions:

- Do not apply more than 2.25 pints of this product per acre as a maximum single in-crop application rate using ground equipment.
- Do not apply more than 1.5 pints of this product per acre when applying by air.
- The maximum combined total application rate of this product between layby and 60 percent open bolls is 1.5 quarts per acre.
- The maximum combined total application rate of this product made from crop emergence to 60 percent open bolls is 4.5 quarts per acre.
- Do not add additional surfactant or additives containing surfactant to this product for over the top application to Glyphosate Tolerant cotton.

Preharvest

Apply this product to Glyphosate Tolerant cotton at 1.5 quarts per acre for annual and perennial weed control prior to harvest after 60 percent boll crack. When applied to Glyphosate Tolerant cotton, this product does not enhance the performance of harvest aids.

Restrictions:

- **Preharvest Interval:** Do not apply within 7 days of harvest.
- Do not add additional surfactant or additives containing surfactant to this product for preharvest application to Glyphosate Tolerant cotton.
- Using this product according to label directions is expected to result in normal growth of Glyphosate Tolerant cotton. However, due to the sensitivity of cotton fruiting to various environmental conditions, agronomic practices, and other factors, it is impossible to eliminate all risks associated with this product. In some cases, these factors can result in boll loss, delayed maturity and/or yield loss even when applications are made according to label directions.

Attention: Normal growth of Glyphosate Tolerant cotton will result if this product is applied according to label directions. It is impossible to eliminate all risks associated with this product due to the sensitivity of cotton fruiting to various environmental conditions, agronomic practices and other factors even when applications are made in conformance with label specifications. These factors, in some cases, can result in boll loss, delayed maturity and/or yield loss.

Glyphosate Tolerant Cotton **(For Use in Arizona, New Mexico and West Texas Only)**

See the Glyphosate Tolerant Crops section of the product label for general precautionary instructions for use in glyphosate tolerant crops.

The use directions in this section apply only to varieties marked as Glyphosate Tolerant cotton. If this product is applied over the top of cotton other than Glyphosate Tolerant cotton, crop injury and reduced yields will result. Do not combine the directions in this section with the directions in the section for Cotton with Glyphosate Tolerant Gene or with any other Glyphosate Tolerant cotton use directions on other glyphosate-containing products. If this product drifts onto adjacent fields of post 4-leaf (node) Glyphosate Tolerant cotton, extensive crop injury, including boll loss, delayed maturity and/or yield loss will occur.

Types of Applications: Preplant, at-planting, preemergence, postemergence, preharvest

Maximum Allowable Application Rates

Application Type	Rate (quart/acre)
preplant preemergence at-planting	3.75
total all in-crop applications from cracking to 60 percent open bolls	4.5
maximum allowed from 60 percent open bolls to 7 days prior to harvest	1.5
combined total for all applications	6

Calculate the combined rate used for all preplant, in-crop and preharvest applications to ensure that the total does not exceed the maximum rate per acre per year allowed.

Preplant, Preemergence, and At-Planting

Apply this product before, during, or after planting Glyphosate Tolerant cotton.

Postemergence

Apply this product to Glyphosate Tolerant cotton to control annual grasses and broadleaf weeds listed on this label. Eliminate competing weeds early to maximize yield potential. One or more applications of this product will control or suppress many perennial weeds. For best results, initially apply 1.5 pints per acre on 1- to 3-inch tall annual grass and broadleaf weeds. Apply this product at up to 1.5 quarts per acre per application using ground application equipment. More thorough weed coverage may be achieved by using post-directed spray equipment.

Precaution:

- Applications above 1.5 pints per acre as an in-crop application made alone or with the addition of other crop chemicals containing surfactants as a crop response including leaf speckling or leaf necrosis may occur.

Restrictions:

- Do not apply more than 1.5 quarts of this product per acre as a maximum single in-crop application rate using ground equipment.

- Do not apply more than 2.25 pints of this product per acre when applying by air.
- The maximum combined total application rate of this product between layby and 60 percent open bolls is 1.5 quarts per acre.
- The maximum combined total application rate of this product made from crop emergence to 60 percent open bolls is 4.5 quarts per acre.
- Do not add additional surfactant or additives containing surfactant to this product for over the top application to Glyphosate Tolerant cotton.

Preharvest

Apply this product to Glyphosate Tolerant cotton at 1.5 quarts per acre for annual and perennial weed control prior to harvest after 60 percent boll crack. Make the application by aerial or ground spray equipment. When applied to Glyphosate Tolerant cotton, this product does not enhance the performance of harvest aids.

Restrictions:

- **Preharvest Interval:** Do not apply within 7 days of harvest.
- Do not add additional surfactant or additives containing surfactant to this product for preharvest application to Glyphosate Tolerant cotton.

Attention: Normal growth of Glyphosate Tolerant cotton will result if this product is applied according to label directions. It is impossible to eliminate all risks associated with this product due to the sensitivity of cotton fruiting to various environmental conditions, agronomic practices and other factors even when applications are made in conformance with label specifications. These factors, in some cases, can result in boll loss, delayed maturity and/or yield loss.

Glyphosate Tolerant Corn

See the Glyphosate Tolerant Crops section of this label for general precautionary instructions for use in glyphosate tolerant crops.

Types of Applications: Preplant, at-planting, preemergence, postemergence (in-crop), spot treatment, postharvest, postemergence (in-crop) for tassel control tolerant to glyphosate only, in-crop.

Maximum Allowable Application Rates

Application Type	Rate (per acre)
preplant preemergence at-planting	3.75 qt
maximum single in-crop application up to 48-inch corn	2.25 pt
total in-crop applications from emergence through 48-inch corn	2.25 qt
combined total per year for all applications	2.25 qt

Preplant, Preemergence and At-Planting

Apply this product alone or in a tank mix before, during or after planting. Make a postemergence (in-crop) application following the use of the preemergence residual products listed below for maximum weed control.

Tank Mixes: The products listed below may be tank mixed with this product. Apply these tank mixes in 10 to 20 gpa of water or 10 to 60 gpa of nitrogen solution. Ensure that the specific product used is labeled for application prior to emergence of field corn. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

2,4-D	diflufenzopyr	nicosulfuron
acetochlor	flumetsulam	rimsulfuron
atrazine	fluroxypyr	s-metoachlor
bicyclopyrone	flumiclorac pentyl ester	tembotrione
bromoxynil	halosulfuron-methyl	thiencarbazone-methyl
cafentrezone-ethyl	isoxaflutole	thifensulfuron-methyl
clopyralid	mesotrione	topramezone
dicamba	metolachlor	

Restrictions:

- Do not apply more than 3.75 quarts per acre per year for all combined total of preplant, preemergence, and at-planting applications.
- Make applications of 2,4-D or dicamba at least 7 days before planting corn.

Postemergence (In-Crop)

Apply this product alone or in a tank mix over the top of field corn hybrids tolerant to glyphosate from emergence through the V8 stage (8 leaves with collars) or until corn height reaches 30 inches (free standing), whichever comes first. Use drop nozzles for optimum spray coverage and weed control when corn height is 24 to 30 inches. For corn 30 to 48 inches (free standing), apply this product only using ground application equipment equipped with drop nozzles aligned to avoid spraying the whorls of the corn plants.

This product will control annual grasses and broadleaf weeds listed on this label when applied as directed. One or more applications of this product controls or suppresses many perennial grasses and broadleaf weeds. Apply 18 fl oz to 1.5 pints per acre before weeds exceed 4 inches in height, or before they become competitive with the crop. Apply 18 fl oz to 1.5 pints of this product per acre as a sequential application before weeds exceed 4 inches in height if new flushes of weeds occur.

Tank Mixes: The active ingredients listed below may be tank mixed with this product. Ensure that the specific product used is labeled for application postemergence (in-crop) to field corn. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

2,4-D	flumetsulam	nicosulfuron
acetochlor	fluroxypyr	rimsulfuron
atrazine	flumiclorac pentyl ester	s-metolachlor
bicyclopyrone	halosulfuron-methyl	tembotrione
cafentrezone-ethyl	isoxaflutole	thiencarbazone-methyl
clopyralid	mesotrione	thifensulfuron-methyl
dicamba	metolachlor	topramezone
diflufenzopyr		

Tank Mix Partner	Active Ingredient(s)	Maximum Height of Corn for Application (Inches)
FulTime NXT (EPA Reg. No. 62719-668) Keystone NXT (EPA Reg. No. 62719-671) Keystone LA NXT (EPA Reg. No. 62719-670) Resicore (EPA Reg. No. 62719-693)	Acetochlor + Atrazine Acetochlor + Atrazine Acetochlor + Atrazine Acetochlor + Clopyralid + Mesotrione	11
SureStart II (EPA Reg. No. 62719-679)	Acetochlor + Clopyralid + Flumetsulam	
Surpass NXT (EPA Reg. No. 62719-672) TopNotch (EPA Reg. No. 62719-369)	Acetochlor Acetochlor	

atrazine		12
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Restrictions:

- **Preharvest Interval:** Do not apply within 50 days of forage or grain harvest.
- **Minimum Treatment Interval:** 10 days
- Using in-crop (over the top) rates specified in this label on corn other than field corn hybrids tolerant to glyphosate may cause crop injury and reduced yields.

Preharvest

Apply 1.5 pints of this product per acre for annual and perennial weed control prior to harvest at 35 percent or less grain moisture. Make sure that maximum kernel fill is complete and the corn is physiologically mature (black layer formed).

Restrictions:

- **Preharvest Interval:** Do not apply within 7 days of harvest or feeding corn stover or grain.
- If the combined total of previously applied over the top or drop nozzle applications exceeds 48 fl oz of this product per acre, do not make a preharvest application.

Postharvest

Apply this product for weed control after the crop is harvested. Higher rates may be required to control large weeds growing in the crop at the time of harvest. A tank mixture with 2,4-D or dicamba may be used. Ensure that the specific product used is labeled for application postharvest to field corn. Read and follow all label directions for all products in the tank mixture. Use according to the most restrictive precautionary statements for each product in the tank mixture.

Restrictions:

- **Preharvest Interval:** Do not apply within 7 days of harvest or feeding treated vegetation.

Postemergence (In-Crop) for Tassel Control in Glyphosate Tolerant Hybridization Systems (RHS) Only

This application is for use only in corn hybrid seed production using RHS. Do not apply this product on corn grown for food or feed.

The RHS designation indicates that the corn contains proprietary gene technology that allows for tassel-only susceptibility to this product. Severe crop injury and yield loss could occur if this product is used on corn hybrids or inbreds that are not designated as RHS or as corn containing Glyphosate Tolerant Technology.

Apply 12 fl oz to 1.5 quarts of this product per acre as an over the top broadcast application for tassel control in RHS corn inbred recipient lines in seed production fields planted with corn containing Glyphosate Tolerant Technology as the pollen donor at any growth stage, including growth stages later than V8. Multiple application may be made for tassel control.

Restrictions:

- Do not use corn fodder, forage, grain, or stover for food or feed.
- Do not allow corn fodder, forage, grain, or stover to be grazed when this product has been applied for tassel control.
- Do not process harvested corn grain or resulting seed for food or feed when this product has been applied for tassel control.

To control emerged weeds as a postemergence application, apply this product in a tank mix with other herbicides such as 2,4-D or dicamba and a residual herbicide such as FulTime NXT (EPA Reg. No. 62719-668), Keystone (EPA Reg. No. 62719-671), Keystone LA NXT (EPA Reg. No. 62719-670), SureStart II (EPA Reg. No. 62719-679), Surpass EC (EPA Reg. No. 62719-367), or TopNotch (EPA Reg. No. 62719-369) for continued control of *Ambrosia* spp.

Glyphosate Tolerant Soybean

See the Glyphosate Tolerant Crops section of this label for general precautionary instructions for use in glyphosate tolerant crops.

Note: Use of this product for in-crop application over glyphosate tolerant soybeans is not registered in California.

Types of Applications: Preplant, at-planting, preemergence, postemergence (in-crop), postharvest.

Maximum Allowable Application Rates

Application Type	Rate (per acre)
preplant preemergence at-planting	3.75 qt
total in-crop applications from cracking throughout flowering (R2 stage)	2.25 qt

Preplant, Preemergence and At-Planting

This product may be applied before, during or after planting glyphosate tolerant soybeans.

Tank Mixes: Mix this product with 2,4-D or dicamba and apply prior to planting only. The active ingredients listed below may be tank mixed with this product and applied prior to crop emergence. Ensure that the specific product used is labeled for application prior to emergence of the crop. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

acetochlor	flumetsulam	metribuzin
acifluofen	flumiclorac	pendimethalin
bentazon	flumioxazin	quizalofop-p-ethyl
carfentrazone-ethyl	fluthiacet-methyl	pyroxasulfone
chlorimuron ethyl	fomesafen	rimsulfuron
clethodim	halauxifen-methyl	saflufenacil
clomazone	imazamox	sethoxydim
cloransulam-methyl	imazaquin	s-metolachlor
dimethenamid	imazethapyr	sulfentrazone
dimethenamid-p	lactofen	thifensulfuron
fluaizifop-pbutyl	linuron	tribenuron-methyl
flufenacet	metolachlor	trifluralin

Restrictions:

- Do not apply more than 3.75 quarts per acre per year for all combined total of preplant, preemergence and at-planting applications.

Postemergence (In-Crop)

This product may be applied postemergence to glyphosate tolerant soybeans from the cracking (emergence) stage throughout flowering (R2 stage soybeans). Soybeans at the R2 stage ends when a pod 5 millimeters (3/16 inch) long appears at one of the four uppermost nodes on the main stem with a fully developed leaf (R3 stage). Refer to the rate table in the Annual Weeds section. Apply an initial application of 1.5 pints per acre on weeds 2 to 8 inches tall, generally occurring within two to five weeks after planting. Apply a higher rate of this product if the initial application is delayed and weeds are taller.

Up to 1.5 quarts of this product per acre may be applied as a single, in-crop application for control of annual weeds and where dense weed populations exist.

Apply 1.5 pints to 3 pints of this product per acre as a single or multiple application to control or suppress perennial weeds, such as bermudagrass, Canada thistle, common milkweed, field bindweed, hemp dogbane, horsenettle, maretail (horseweed), nutsedge, quackgrass, rhizome johnsongrass, redvine, trumpetcreeper, swamp smartweed and wirestem muhly. For best results, before applying this product, allow perennial weeds species to be at least 6 inches tall.

A sequential application of this product may be required to control late flushes of weeds under adverse growing conditions such as drought, hail, wind damage or when a soybean stand has delayed canopy closure (wide-row soybeans, poor stand, etc.). Sequential applications are required in southern states to control new flushes of weeds in glyphosate tolerant soybeans. Apply 1.5 pints of this product per acre to giant ragweed when the weed is 8 to 12 inches tall to increase control and attempt to avoid the need for a sequential application.

Tank Mixes: The active ingredients listed below may be tank mixed with this product and applied prior to postemergence (in-crop). Ensure that the specific product used is labeled for postemergence (in-crop) to the crop. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label. In some cases, these tank mix products will cause visual soybean injury.

acetochlor	flumetsulam	metribuzin
acifluofen	flumiclorac pentyl ester	pendimethalin
bentazon	flumioxazin	quizalofop-p-ethyl
carfentrazone-ethyl	fluthiacet-methyl	pyroxasulfone
chlorimuron ethyl	fomesafen	saflufenacil
clethodim	imazamox	isethoxydim
clomazone	imazaquin	s-metolachlor
cloransulam-methyl	imazethapyr	sulfentrazone
dimethenamid	lactofen	thifensulfuron
dimethenamid-p	linuron	tribenuronmethyl
fluazifop-pbutyl	metolachlor	trifluralin
flufenacet		

Restrictions:

- Do not apply more than 2.25 quarts per acre for the combined total application from crop emergence through harvest.
- The maximum rate for any single in-crop application is 1.5 quarts per acre.
- The maximum combined total of this product that can be applied during flowering (R2 stage soybeans) is 1.5 quarts per acre.

Preharvest

Apply up to 1.5 pints of this product per acre after soybean pods have set and lost all green color.

Restrictions:

- **Preharvest Interval:** Do not apply within 14 days of harvest of grain or feeding soybean grain, forage or hay.
- Avoid excessive seed shatter loss due to ground application equipment.

Postharvest

A higher rate of this product may need to be applied to control large weeds growing in the crop at the time of harvest. This product may also be tank mixed with 2,4-D or dicamba. Ensure that the specific product used is labeled for postharvest application to the crop. Read and follow all label directions for all products in the tank mixture. Use according to the most restrictive precautionary statements for each product in the tank mixture.

Restrictions:

- For any crop not listed on this label, make applications at least 30 days prior to planting the next crop.

Glyphosate Tolerant Sugar Beet

Types of Applications: Preplant, at-planting, preemergence, postemergence (in-crop)

See the Glyphosate Tolerant Crops section of this label for general precautionary instructions for use in glyphosate tolerant crops.

Maximum Allowable Application Rates

Application Type	Rate (per acre)
preplant preemergence at-planting	3.75 qt
total all applications made from emergence to 8-leaf stage	2 qt
total all applications made between 8-leaf stage and canopy closure	1.5 qt
combined total for all applications	6 qt

Preplant, Preemergence, and At-Planting

This product may be applied before, during or after planting glyphosate tolerant sugar beets.

Tank Mixes: Ethofumesate may be tank mixed with this product and applied prior to crop emergence. Ensure that the specific product used is labeled for application prior to emergence of the crop. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

Restrictions:

- Do not apply more than 3.75 quarts per acre per year for all combined total of preplant, preemergence and at-planting applications.

Postemergence (In-Crop)

This product may be applied postemergence to glyphosate tolerant sugar beets from emergence stage to 30 days before harvest. This product controls or suppresses most perennial weeds; however, some perennial weeds require repeat applications to eliminate crop competition throughout the year. Eliminate competing weeds early to maximize yield potential. Apply up to four sequential applications of this product with at least 10 days between applications.

Restrictions:

- **Maximum Single Application Rate:** Do not apply more than 1.125 lb ae per acre up to 8-leaf stage and 0.77 lb ae per acre between 8-leaf stage and canopy closure.

Tank Mixes: The active ingredients listed below may be tank mixed with this product and applied prior to postemergence (in-crop). Ensure that the specific product used is labeled for postemergence (in-crop) to the crop. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label. Tank mixes of this product with herbicides, insecticides or fungicides may result in crop injury or reduced weed control.

acetochlor
clethodim¹
clopyralid
dimethenamide P

ethofumesate¹
fluazifop-p-butyl
fomesafen

quizalofop-p-ethyl
s-metolachlor
triflusaluron methyl

¹ Clethodim and ethofumesate may cause significant injury to sugar beet. Refer to the labels of specific products for crop injury precautions.

Restrictions:

- **Preharvest Interval:** Do not apply within 30 days of harvest.
- Do not apply more than 1.13 quarts per acre as a single application from crop emergence until the 8 leaf stage.
- Do not apply more than 1.5 pints per acre as a single application from the 8 leaf stage and canopy closure.
- Do not apply more than a total of 3.5 quarts per acre for the combined total application from crop emergence through harvest.

Glyphosate Tolerant Sweet Corn Hybrids w

See the Glyphosate Tolerant Crops section of this label for general precautionary instructions for use in glyphosate tolerant crops.

Types of Applications: Preplant, at-planting, preemergence, postemergence (in-crop)

Maximum Allowable Application Rates

Application Type	Rate (per acre)
preplant preemergence at-planting	3.75 qt
maximum single in-crop application up to 48-inch corn	2.25 pt
total in-crop applications from emergence through 48-inch corn	2.25 qt
combined total per year for all applications	6 qt

Preplant, Preemergence, and At-Planting

Apply this product alone or in a tank mix before, during or after planting sweet corn hybrids tolerant to glyphosate.

Tank Mixes: The active ingredients listed below may be tank mixed with this product. Apply these tank mixes in 10 to 20 gpa of water or 10 to 60 gpa of nitrogen solution. Ensure that the specific product used is labeled for application prior to emergence of sweet corn. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

acetochlor
atrazine
bicylopyrone

carfentrazone-ethyl
dimethenamid-p
mesotrione

metolachlor
s-metolachlor

Restrictions:

- Do not apply more than 3.75 quarts per acre per year for all combined total of preplant, preemergence, and at-planting applications.

Postemergence (In-Crop)

Apply this product alone or in a tank mix over the top of sweet corn hybrids tolerant to glyphosate from emergence through the V8 stage (8 leaves with collars) or until corn height reaches 30 inches (free standing), whichever comes first. Use drop nozzles for optimum spray coverage and weed control when corn height is 24 to 30 inches. For corn 30 to 48 inches (free standing), apply this product only using ground application equipment equipped with drop nozzles aligned to avoid spraying the whorls of the corn plants.

This product will control annual grasses and broadleaf weeds listed on this label when applied as directed. One or more applications of this product controls or suppresses many perennial grasses and broadleaf weeds. Apply 18 fl oz to 1.5 pints per acre before weeds exceed 4 inches in height, or before they become competitive with the crop. Apply 18 fl oz to 1.5 pints of this product per acre as a sequential application before weeds exceed 4 inches in height if new flushes of weeds occur.

Tank Mixes: The active ingredients listed below may be tank mixed with this product. Ensure that the specific product used is labeled for application postemergence (in-crop) to sweet corn. When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label.

acetochlor
atrazine
bicylopyrone

carfentrazone-ethyl
dimethenamid-p
mesotrione

metolachlor
s-metolachlor

Restrictions:

- **Preharvest Interval:** Do not apply within 30 days of sweet corn forage or grain harvest.
- **Minimum Treatment Interval:** 10 days
- Do not apply if the crop has reached the reproductive stage.
- Do not apply this product in a tank mix with atrazine when sweet corn plants are more than 12 inches tall.

Annual Weeds

Water carrier volumes of 16 to 40 gpa for ground applications and 6 to 15 gpa for aerial applications are required when using the following rates to control the annual weeds listed in the table:

- Grass and annual broadleaf weeds less than 6 inches in height or circumference, or vines less than 3 inches in length – 1.5 pints per acre
- Grass and annual broadleaf weeds between 6 to 12 inches in height or circumference, or vines between 3 to 6 inches in length – 2.25 pints per acre
- Grass and annual broadleaf weeds more than 12 inches in height or circumference, or vines more than 6 inches in length – 1.5 quarts per acre

When water carrier volumes are 3 to 15 gpa for ground applications or 3 to 5 gpa for aerial applications, use the application rates specified for individual weeds in the table below.

Apply to actively growing annual weeds; these weeds are easiest to control when they are small. Higher application rates than those specified in the table below may be required for older, mature (hardened) and otherwise tough to control annual weed species regardless if they meet the size requirement. For tough to control annual weeds or heavy weed densities, apply up to 1.5 quarts per acre. Follow all precautions, restrictions, maximum allowed application rates, and crop stage timings specified in all use sites on this label.

Maximum size is the maximum plant height, length of runners for vines, or circumferences of rosette plants. Do not tank mix with soil residual herbicides when using these rates unless it is otherwise indicated to do so. Allow regrowth to occur before treating weeds that have been mowed, grazed or cut.

Rate Table

	Rate (fl oz/acre)				
	12	18	24	30	36
Weed Species	Maximum Height/Length (inches)				
ammannia, purple	3	6	12	-	18
anoda, spurred	-	2	3	5	8

	Rate (fl oz/acre)				
	12	18	24	30	36
Weed Species	Maximum Height/Length (inches)				
barley	18	18+	-	-	-
barnyardgrass	-	3	6	7	9
bassia, fivehook	-	-	6	-	-
beggarweed, Florida	-	5	8	-	-
bittercress	12	20	-	-	-
bluegrass, annual	10	-	-	-	-
bluegrass bulbous	6	-	-	-	-
brome, downy ^{1,2}	6	12	-	-	-
brome, Japanese	6	12	24	-	-
browntop panicum	6	8	12	-	24
buckwheat, wild ³	-	1	2	-	-
burcucumber	-	6	12	-	18
buttercup	12	20	-	-	-
Carolina geranium	-	-	4	-	9
carpetweed	-	6	12	-	-
cheat ²	6	20	-	-	-
chervil	20	-	-	-	-
chickweed	-	12	18	-	-
cocklebur	12	18	24	-	36
copperleaf, hophornbeam	-	2	4	-	6
copperleaf, Virginia					
coreopsis, plains	-	6	12	-	18
corn, volunteer (non-glyphosate tolerant)	6	12	20	-	-
corn speedwell	12	-	-	-	-
crabgrass	3	6	12	-	-
crowfootgrass	-	-	6	-	12
cutleaf evening primrose	-	-	3	-	6
devilsclaw (unicorn plant)	-	3	6	-	-
dwarf dandelion	12	-	-	-	-
eastern mannagrass	8	12	-	-	-
eclipta	-	4	8	12	-
fall panicum	4	-	6	-	12
falsedandelion	-	20	-	-	-
falseflax, smallseed	12	-	-	-	-
fiddleneck	-	6	12	-	-
field pennycress	6	12	-	-	-
filaree	-	-	6	-	12
fleabane, annual	6	20	-	-	-
fleabane, hairy (<i>conyza bonariensis</i>) ⁶	-	-	6	-	10
fleabane, rough	3	6	12	-	-
Florida pusley	-	-	4	-	6
foxtail, Carolina	10	-	-	-	-
foxtail (giant, bristly, yellow)	6	12	20	-	-
foxtail, green	12	-	-	-	-
goatgrass, jointed	6	12	-	-	-
goosegrass	-	3	6	-	12
grain sorghum (milo)	6	12	20	-	-

	Rate (fl oz/acre)				
	12	18	24	30	36
Weed Species	Maximum Height/Length (inches)				
groundcherry	-	3	6	-	9
groundsel, common, cressleaf	-	6	10	-	-
hemp sesbania	-	2	4	6	8
henbit	-	-	6	-	12
horseweed/marestail (<i>conyza canadensis</i>) ⁶	-	6	12	-	18
itchgrass	6	8	12	-	18
jimsonweed	-	-	12	-	18
johnsongrass (seedling) ⁶	6	12	18	-	24
junglerice	-	3	6	7	9
knotweed	-	-	6	-	12
kochia ^{4, 6}	-	3 - 6	12	-	-
lambquarters	-	6	12	-	20
little barley	6	12	-	-	-
London rocket	6	-	24	-	-
mayweed	-	2	6	12	18
morningglory, annual (<i>Ipomoea</i> spp.)	-	-	3	-	6
mustard, blue	6	12	18	-	-
mustard, tansy					
mustard, tumble					
mustard, wild					
nightshade, black	-	4	6	-	12
nightshade, hairy					
oats	3	6	18	-	-
pigweed, palmer ⁶	-	12	18	24	-
pigweed species ⁶	-	12	18	24	-
prickly lettuce	-	6	12	-	-
purslane	-	-	3	-	6
ragweed, common ⁶	-	6	12	-	18
ragweed, giant ⁶					
red rice	-	-	4	-	-
Russian thistle ⁵	-	6	12	-	-
rye, volunteer/cereal ²	6	18	18+	-	-
ryegrass species ⁶	-	-	6	-	12
sandbur, field	6	12	-	-	-
sandbur, longspine					
shattercane	6	12	20	-	-
shepherd's-purse	6	12	-	-	-
sicklepod	-	2	4	-	8
signalgrass, broadleaf	-	3	6	7	9
smartweed, ladythumb	-	-	6	-	9
smartweed, Pennsylvania					
sowthistle, annual	-	-	6	-	12
Spanishneedles					
speedwell, purslane	12	-	-	-	-
sprangletop	6	12	20	-	-
spurge, prostrate	-	6	12	-	-

	Rate (fl oz/acre)				
	12	18	24	30	36
Weed Species	Maximum Height/Length (inches)				
spurge, spotted					
spurry, umbrella	6	-	-	-	-
stinkgrass	-	12	-	-	-
sunflower	12	18	-	-	-
swinecress	-	5	12	-	-
teaweed/prickly sida	-	2	4	-	6
Texas panicum	6	8	12	-	24
thistle, Russian ⁵	-	6	12	-	-
velvetleaf	-	-	6	-	12
Virginia pepperweed	-	18	-	-	-
waterhemp ⁶	-	-	6	-	12
wheat ²	6	12	18	-	-
wheat (over-wintered)	-	6	12	-	18
wild oats	3	6	18	-	-
wild proso millet	-	6	12	-	18
witchgrass	-	12	-	-	-
woolly cupgrass	-	6	12	-	-
yellow rocket	-	12	20	-	-

¹ For control of downy brome in no-till systems, use 12 fl oz per acre.

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

³ Use 12 fl oz of this product per acre to control wild buckwheat in the cotyledon to 2-leaf stage. Use 1.5 pints per acre to control wild buckwheat at the 2- to 4-leaf stage. For improved control of wild buckwheat more than 2 inches in size, use sequential treatments of 1.5 pints followed by 1.5 pints of this product per acre.

⁴ Do not treat kochia in the button stage.

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

⁶ A glyphosate-resistant biotype has been identified for this weed. For additional information, refer to the Herbicide Resistance Management section of this label.

Tank Mixtures with 2,4-D, Dicamba or Picloram-Potassium

This product may be tank mixed with the active ingredients listed provided the specific product tank mixed is registered for use on this site. Tough weeds can be better controlled by tank mixing this product with 0.25 lb a.i. of dicamba, or 0.5 lb a.i. of 2,4-D, or 1 to 2 oz of picloram-potassium per acre. Combining these herbicides with the rate of this product specified in the rate table for annual weeds will control the following weeds with the maximum height or length indicated: 6 inches -- prickly lettuce, maretail/horseweed (*Conyza canadensis*), morningglory (*Ipomoea* spp.), kochia (dicamba only); wild buckwheat (Tordon 22K only); 12 inches -- cocklebur, lambsquarters, pigweed, Russian thistle (2,4-D only).

This product, applied at the rates specified in the rate table for annual weeds, controls the following weeds when they are a maximum height or length of 6 inches: common ragweed, giant ragweed, Pennsylvania smartweed, and velvetleaf. Tank mix this product with 0.5 lb a.i. 2,4-D per acre for better control.

Refer to the specific product labels for crop rotation restrictions and precautionary statements of all products used in tank mixtures. Some crop injury may occur if dicamba or Tordon 22K is applied within 45 days of planting. Tordon 22K is not registered for use in the state of California.

Tank mixtures of this product with dicamba must not be applied by air in California.

Handheld or Backpack Equipment

To control the weeds listed in the Rate Table in the Annual Weeds section, apply a 0.4 percent solution of this product to weeds less than 6 inches in height or in runner length prior to seedheads forming in grass or prior to bud formation in broadleaf weeds. Apply a 0.7 percent solution to annual weeds more than 6 inches tall.

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

Use a 4 percent solution for annual and perennial weeds and a 4 to 7 percent solution for woody brush and trees when using an application method that results in less than complete coverage.

Tank Mixtures with Atrazine for Fallow and Reduced Tillage Systems

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

Application of 18 to 22 fl oz of this product plus 1 to 2 lb of atrazine per acre will control the following weeds: barnyardgrass (barnyardgrass requires 22 fl oz of this product for control), downy brome, green foxtail, lambsquarters, prickly lettuce, tansy mustard, pigweed, field sandbur, stinkgrass, Russian thistle, volunteer wheat, witchgrass and kochia (for kochia, add 4 fl oz of dicamba per acre for control).

Perennial Weeds

Apply to actively growing perennial weeds. **Note:** If weeds have been mowed or tilled, do not treat until plants have resumed active growth and have reached the specified stages.

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

Unless otherwise stated, allow seven days or more after application before tillage.

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

Rate Table

Weed Species	Rate (pt/acre)	Water Volume (gpa)	Handheld (% Solution)
alfalfa	1.5 - 3	3 - 10	1.5
Make applications after the last hay cutting in the fall. Allow alfalfa to regrow to a height of 6 to 8 inches or more prior to treatment. Follow applications with deep tillage at least 7 days after treatment, but before soil freeze-up.			
alligatorweed	6	3 - 20	1
Partial control. Apply when most of the plants are in bloom. Repeat applications will be required to maintain control.			
anise (fennel)	--	--	1 - 1.5
Apply as a spray to wet treatment when most plants have reached the early bud stage of growth. Optimum results are obtained when plants are treated at the bud to full-bloom stage of growth.			
bahiagrass	4.5 - 7.5	3 - 20	1.5
Apply when most plants have reached the early head stage.			
bentgrass	2.25	10 - 20	1.5
For suppression in grass seed production areas. For ground applications only. Ensure entire crown area has resumed growth prior to a fall application. Bentgrass should have at least 3 inches of growth. Avoid tillage prior to treatment. Tillage 7 to 10 days after application is required for best results.			
bermudagrass	4.5 - 7.5	3 - 20	1.5

Weed Species	Rate (pt/acre)	Water Volume (gpa)	Handheld (% Solution)
For control, apply 7.5 pints of this product per acre. For partial control, apply 4.5 pints per acre. Treat when bermudagrass is actively growing and seedheads are present. Re-treatment may be necessary to maintain control.			
bermudagrass, water (knotgrass)	1.5 - 2.25	5 - 10	1.5
Apply 2.25 pints of this product in 5 to 10 gpa of water. Apply when water bermudagrass is 12 to 18 inches in length. Allow 7 days or more before tilling, flushing or flooding the field. Fall applications only: Apply 1.5 pints of this product in 5 to 10 gpa of water. Till fallow fields prior to application. Apply prior to frost on water bermudagrass that is 12 to 18 inches in length. This product is not registered in California for use on water bermudagrass.			
bindweed, field	0.75 - 7.5	3 - 20	1.5
Do not treat when weeds are under drought stress as good soil moisture is necessary for active growth. For control, apply 6 to 7.5 pints of this product per acre west of the Mississippi River and 4.5 to 6 pints east of the Mississippi River. Apply when the weeds are at or beyond full bloom. For best results, apply in late summer or fall. Apply fall treatments before a killing frost. Also for control, apply 3 pints of this product plus 0.5 lb a.i. of dicamba in 10 to 20 gpa of water. Do not apply by air. For suppression on irrigated agricultural land, apply 1.5 to 3 pints of this product plus 1 lb a.i. of 2,4-D in 10 to 20 gpa of water with ground equipment only. Apply following harvest or in fall fallow ground when the bindweed is actively growing and the majority of runners are 12 inches or more in length. The use of at least one irrigation will promote active bindweed growth. For suppression, apply 12 fl oz of this product plus 0.5 lb a.i. of 2,4-D in 3 to 10 gpa of water for ground applications and 3 to 5 gpa of water for aerial applications. Apply by air in fallow and reduced tillage systems only. Delay applications until maximum emergence has occurred and when vines are between 6 to 18 inches in length. In California only, apply 1.5 to 7.5 pints of this product per acre. The actual rate needed for suppression or control will vary within this range depending upon local conditions. For suppression on irrigated land where annual tillage is performed, apply 1.5 pints of this product in 3 to 10 gpa of water. Apply to bindweed that has reached a length of 12 inches or more. Allow maximum weed emergence and runner growth. Allow 3 days or more after application before tillage.			
bluegrass, Kentucky	1.5 - 3	3 - 40	1.5
Apply 3 pints of this product in 10 to 40 gpa of water when most plants have reached boot to early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1.5 to 2.25 pints of this product in 3 to 10 gpa of water. Apply to actively growing plants when most have reached 4 to 12 inches in height.			
blueweed, Texas	4.5 - 7.5	3 - 40	1.5
Apply 6 to 7.5 pints of this product per acre west of the Mississippi River and 4.5 to 6 pints per acre east of the Mississippi River. Apply when plants are at or beyond full bloom. New leaf development indicates active growth. For best results, apply in late summer or fall. Apply fall treatments before a killing frost.			
brackenfern	4.5 - 6	3 - 40	1
Apply to fully expanded fronds which are at least 18 inches long.			
bromegrass, smooth	1.5 - 3	3 - 40	1.5
Apply 3 pints of this product in 10 to 40 gpa of water when most plants have reached boot to early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1.5 to			

Weed Species	Rate (pt/acre)	Water Volume (gpa)	Handheld (% Solution)
2.25 pints of this product in 3 to 10 gpa of water. Apply to actively growing plants when most have reached 4 to 12 inches in height.			
bursage, woolly-leaf	--	3 - 20	1.5
For control, apply 1.5 quarts of this product plus 0.5 lb a.i. of dicamba per acre. For partial control, apply 1.5 pints of this product plus 0.5 lb a.i. of dicamba per acre. Apply when plants are producing new active growth which has been initiated by moisture for at least two weeks and when plants are at or beyond flowering.			
canarygrass, reed	3 - 4.5	3 - 40	1.5
For best results, apply when most plants have reached the boot to head stage of growth.			
cattail	4.5 - 7.5	3 - 40	1.5
Apply when most plants have reached the early head stage.			
clover, red, white	4.5 - 7.5	3 - 20	1.5
For control, apply 12 to 24 fl oz of this product plus 0.5 to 1 lb a.i. of 2,4-D in 3 to 10 gpa of water. Apply when most plants have reached the early bud stage.			
cogongrass	4.5 - 7.5	10 - 40	1.5
Apply when cogongrass is at least 18 inches tall in late summer or fall. Due to uneven stages of growth and the dense nature of vegetation preventing good spray coverage, repeat treatments may be necessary to maintain control.			
dallisgrass	4.5 - 7.5	3 - 20	1.5
Apply when most plants have reached the early head stage.			
dandelion dock, curly	4.5 - 7.5	3 - 40	1.5
Apply when most plants have reached the early bud stage of growth.			
Also for control, apply 12 fl oz of this product plus 0.5 lb a.i. 2,4-D in 3 to 10 gpa of water.			
dogbane, hemp	6	3 - 40	1.5
Apply when most plants have reached the late bud to flower stage of growth. Following crop harvest or mowing, allow weeds to regrow to a mature stage prior to treatment. For best results, apply in late summer or fall.			
For suppression, apply 12 fl oz of this product plus 0.5 lb a.i. of 2,4-D in 3 to 10 gpa of water for ground applications and 3 to 5 gpa of water for aerial applications. Delay applications until maximum emergence of dogbane has occurred.			
fescue (except tall)	4.5 - 7.5	3 - 20	1.5
Apply when most plants have reached the early head stage.			
fescue, tall	1.5 - 4.5	3 - 40	1.5
Apply 4.5 pints of this product per acre when most plants have reached boot to early seedhead stage of development.			
Fall applications only: Apply 1.5 pints of this product in 3 to 10 gpa of water. Apply to fescue in the fall when plants have 6 to 12 inches of new growth. A sequential application of 12 fl oz of this product per acre will improve long-term control and control seedlings germinating after fall treatments or the following spring.			
guineagrass	3 - 4.5	3 - 40	1
Apply when most plants have reached at least the 7-leaf stage of growth. Ensure thorough coverage when using handheld equipment. In Texas and ridge of Florida, use 3 pints per acre for control. In the flatwoods region of Florida, 4.5 pints per acre is required for control.			
horsenettle	4.5 - 7.5	3 - 20	1.5
Apply when most plants have reached the early bud stage.			
horseradish	6	3 - 40	1.5
Apply when most plants have reached the late bud to flower stage of growth. For best results, apply in late summer or fall.			

Weed Species	Rate (pt/acre)	Water Volume (gpa)	Handheld (% Solution)
iceplant	--	--	1.5 - 2
Iceplant should be at or beyond the early bud stage of growth. Thorough coverage is necessary for best control.			
Jerusalem artichoke	4.5 - 7.5	3 - 20	1.5
Apply when most plants are in the early bud stage.			
johnsongrass	0.75 - 4.5	3 - 40	1
In annual cropping systems apply 1.5 to 3 pints of this product per acre. Apply 1.5 pints of this product in 3 to 10 gpa of water. Use 3 pints of this product when applying in 10 to 40 gpa of water. In noncrop or areas where annual tillage (no-till) is not practiced, apply 3 to 4.5 pints of this product in 10 to 40 gpa of water.			
For best results, apply when most plants have reached the boot to head stage of growth or in the fall prior to frost. Allow 7 days or more after application before tillage. Do not tank mix with residual herbicides when using the 1.5 pint per acre rate.			
For burndown of johnsongrass, apply 12 fl oz of this product in 3 to 10 gpa of water before the plants reach a height of 12 inches. For this use, allow at least three days after treatment before tillage.			
Spot treatment (partial control or suppression): Apply a 0.75% solution of this product when johnsongrass is 12 to 18 inches in height. Coverage should be uniform and complete.			
kikuyugrass	3 - 4.5	3 - 40	1.5
Spray when most kikuyugrass is at least 8 inches in height (3- or 4-leaf stage of growth). Allow three days or more after application before tillage.			
knapweed	6	3 - 40	1.5
Apply when most plants have reached the late bud to flower stage of growth. For best results, apply in late summer or fall.			
lantana	-	-	1
Apply at or beyond the bloom stage of growth. Use the higher application rate for plants that have reached the woody stage of growth.			
lespedeza	4.5 - 7.5	3 - 20	1.5
Apply when most plants have reached the early bud stage.			
milkweed, common	4.5	3 - 40	1.5
Apply when most plants have reached the late bud to flower stage of growth.			
muhly, wirestem	1.5 - 3	3 - 40	1.5
Use 1.5 pints of this product in 3 to 10 gpa of water. Use 3 pints of this product when applying in 10 to 40 gpa of water or in pasture, sod, or noncrop areas. Spray when the wirestem muhly is 8 inches or more in height. Do not till between harvest and fall applications or in the fall or spring prior to spring applications. Allow three days or more after application before tillage.			
mullein, common	4.5 - 7.5	3 - 20	1.5
Apply when most plants are in the early bud stage.			
napierglass	4.5 - 7.5	3 - 20	1.5
Apply when most plants are in the early head stage.			
nightshade, silverleaf	3	3 - 10	1.5
Apply when at least 60 percent of the plants have berries. Fall treatments must be applied before a killing frost.			
nutsedge, purple, yellow	0.75 - 4.5	3 - 40	1 - 1.5
Apply 4.5 pints of this product per acre or apply a 1 to 1.5 percent solution for control of nutsedge plants and immature nutlets attached to treated plants. Treat when plants are in flower or when new nutlets can be found at rhizome tips. Nutlets, which have not germinated, will not be controlled and may germinate following treatment. Repeat treatments will be required for long-term control of ungerminated tubers.			

Weed Species	Rate (pt/acre)	Water Volume (gpa)	Handheld (% Solution)
Sequential applications: 1.5 to 3 pints of this product in 3 to 10 gpa of water will also provide control. Make applications when a majority of the plants are in the 3- to 5-leaf stage (less than 6 inches tall). Repeat this application, as necessary, when newly emerging plants reach the 3- to 5-leaf stage. Subsequent applications will be necessary for long-term control.			
For partial control of existing plants, apply 12 fl oz to 3 pints of this product in 3 to 40 gpa of water. Treat when plants have 3 to 5 leaves and most are less than 6 inches tall. Repeat treatments will be required to control subsequent emerging plants or regrowth of existing plants.			
orchardgrass	1.5 - 3	3 - 40	1.5
Apply 3 pints of this product in 10 to 40 gpa of water when most plants have reached boot to early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 1.5 to 2.25 pints of this product in 3 to 10 gpa of water. Apply to actively growing plants when most have reached 4 to 12 inches in height.			
Orchardgrass sods going to no-till corn: Apply 1.5 to 2.25 pints of this product in 3 to 10 gpa of water. Apply to orchardgrass that is a minimum of 12 inches tall for spring applications and 6 inches tall for fall applications. Allow at least three days following application before planting. A sequential application of atrazine will be necessary for optimum results.			
pampasgrass	--	--	1 - 1.5
Pampasgrass should be at or beyond the boot stage of growth. Thorough coverage is necessary for best control.			
paragrass	4.5 - 7.5	3 - 20	1.5
Apply when most plants are in the early head stage.			
phragmites	4.5 - 7.5	10 - 40	1 - 1.5
For partial control. For best results, treat during late summer or fall months or when plants are actively growing and in full bloom. Treatment before or after this stage may lead to reduced control. Due to the dense nature of the vegetation, which may prevent good spray coverage or uneven stages of growth, repeat treatments may be necessary to maintain control. Visual control symptoms will be slow to develop.			
poison hemlock	--	--	1 - 1.5
Apply as a spray to wet treatment with handheld equipment. Optimum results are obtained when plants are treated at the bud to full-bloom stage of growth. For best control, thorough coverage is necessary.			
pokeweed, common	1.5	3 - 40	1.5
Apply to actively growing plants up to 24 inches tall.			
quackgrass	1.5 - 4.5	3 - 40	1.5
In annual cropping systems or in pastures and sods followed by deep tillage: Apply 1.5 pints of this product in 3 to 10 gpa of water. For 10 to 40 gpa of water, apply 3 pints of this product. Do not tank mix with residual herbicides when using the 1.5 pint rate. Spray when quackgrass is 6 to 8 inches in height. Do not till between harvest and fall applications or in fall or spring prior to spring application. Allow three days or more after application before tillage. In pastures or sods, use a moldboard plow for best results.			
In pastures, sods or noncrop areas where deep tillage does not follow application: Apply 3 to 4.5 pints of this product in 10 to 40 gpa of water when the quackgrass is more than 8 inches tall.			
redvine	1.25 - 3	5 - 10	1.5
For suppression, apply 18 fl oz of this product per acre at each of two applications 7 to 14 days apart or a single application of 3 pints per acre. Apply specified rates in 5 to 10 gpa of water. Apply in late September or early October to plants that are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least 1 week before a killing frost.			
reed, giant	--	--	1.5
Best results are obtained when applications are made in late summer to fall.			
ryegrass, perennial	1.5 - 4.5	3 - 40	1

Weed Species	Rate (pt/acre)	Water Volume (gpa)	Handheld (% Solution)
In annual cropping systems apply 1.5 to 3 pints of this product per acre. Apply 1.5 pints of this product in 3 to 10 gpa of water. Use 3 pints of this product when applying in 10 to 40 gpa of water. In noncrop or areas where annual tillage (no-till) is not practiced, apply 3 to 4.5 pints of this product in 10 to 40 gpa of water.			
For best results, apply when most plants have reached the boot to head stage of growth or in the fall prior to frost. Do not tank mix with residual herbicides when using the 1.5 pint per acre rate.			
smartweed, swamp	4.5 - 7.5	3 - 40	1.5
Apply when most plants have reached the early bud stage of growth.			
Also for control, apply 12 fl oz of this product plus 0.5 lb a.i. of 2,4-D in 3 to 10 gpa of water in the late summer or fall.			
sowthistle, perennial	3 - 4.5	3 - 40	1.5
Apply when most plants are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow three days or more after application before tillage.			
spurge, leafy	--	3 - 10	1.5
For suppression, apply 12 fl oz of this product plus 0.5 lb a.i. 2,4-D in 3 to 10 gpa of water in the late summer or fall. If mowing has occurred prior to treatment, apply when most of the plants are 12 inches tall.			
starthistle, yellow	3	10 - 40	1.5
Best results are obtained when applications are made during the rosette, bolting and early flower stages.			
sweet potato, wild Thistle, artichoke	--	--	1.5
For partial control. Apply to plants that are at or beyond the bloom stage of growth. Repeat applications may be required.			
thistle, Canada	3 - 4.5	3 - 40	1.5
Apply when most plants are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall, allow at least four weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow three days or more after application before tillage.			
For suppression in the spring, apply 1.5 pints of this product, or 12 fl oz of this product plus 0.5 lb a.i. 2,4-D, in 3 to 10 gpa of water. Allow rosette regrowth to a minimum of 6 inches in diameter before treating. Applications can be made as long as leaves are still green and plants are actively growing at the time of application. Allow three days or more after application before tillage.			
timothy	3 - 4.5	3 - 40	1.5
For best results, apply when most plants have reached the boot to head stage of growth.			
torpedograss	6 - 7.5	3 - 40	1.5
For partial control. Apply when most plants are at or beyond the seedhead stage of growth. Repeat applications will be required to maintain control. Fall treatments must be applied before frost.			
trumpet creeper	3	5 - 10	1.5
For partial control. Apply in late September or October to plants that are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least one week before a killing frost.			
vaseygrass velvetgrass	4.5 - 7.5	3 - 20	1.5
Apply when most plants are in the early head stage.			
wheatgrass, western	3 - 4.5	3 - 40	1.5
For best results, apply when most plants have reached the boot to head stage of growth.			

Tank Mixtures for Improved Control of Bentgrass (*Agrostis* spp.) (Not for Use in California)

For improved control of bentgrass (*Agrostis* spp.), the following products may be tank mixed with this product: Envoy (59639-132 clethodim), Fusion (100-1059 fenoxaprop-p-ethyl + fluazifop-p-butyl), Fusilade II (100-1084 fluazifop-P-butyl), or Vantage (228-619 sethoxydim). When tank mixing this product with other herbicides, read each product's label and follow all precautions and limitations on the label. Refer to each product label for the approved use sites.

Dry ammonium sulfate, at 1 to 2 percent by weight, may also be added to the spray solution. The equivalent rate of ammonium sulfate in a liquid formulation may also be used. Completely dissolve the ammonium sulfate in the spray tank before adding herbicides. Thoroughly rinse the spray system with clean water after use to reduce corrosion.

Broadcast Application: Apply 2 to 2.5 quarts of this product per acre plus:

- 34 fl oz of Envoy per acre in 20 to 40 gpa of spray solution.
- 1.5 pints of Fusilade II per acre in 20 to 40 gpa of spray solution.
- 3.75 pints of Vantage per acre in 20 to 40 gpa of spray solution.
- 9 fl oz of Fusion per acre in 20 to 40 gpa of spray solution.

In the event of incomplete control, re-treatment may be necessary.

Spot Treatment: Mix 2 fl oz of this product with:

- 1.3 fl oz of Envoy in 1 gallon of water and spray to wet.
- 0.75 fl oz of Fusilade II in 1 gallon of water and spray to wet.
- 3 fl oz of Vantage in 1 gallon of water and spray to wet.
- 0.25 fl oz of Fusion in 1 gallon of water and spray to wet.

Attention: Avoid drift. Use extreme care when applying this product to prevent injury to desirable plants and crops.

Woody Brush and Trees

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

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

Apply broadcast treatments in 3 to 40 gpa of water unless otherwise directed. Ensure thorough coverage when using handheld equipment. Symptoms may not appear prior to frost or senescence with fall treatments.

Allow seven days or more after application before tillage, mowing or removal. Repeat treatments may be necessary to control plants regenerating from underground parts or seed. Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Reduced performance may result if fall treatments are made following a frost.

Rate Table

Weed Species	Rate (pt/acre)	Water Volume (gpa)	Handheld (% Solution)
alder	4.5 - 6	3 - 40	1
For control			
ash	3 - 7.5	3 - 40	1 - 1.5
For partial control			

Weed Species	Rate (pt/acre)	Water Volume (gpa)	Handheld (% Solution)
aspen, quaking	3 - 4.5	3 - 40	1
For control			
bearmat (bearclover) beech	3 - 7.5	3 - 40	1 - 1.5
For partial control			
birch	3 - 4.5	3 - 40	1
For control			
blackberry	4.5 - 6	10 - 40	1
For control. Make applications after plants have reached full leaf maturity. Best results are obtained when applications are made in late summer or fall. Applications may also be made after leaf drop and until a killing frost or as long as stems are green. After berries have set or dropped in late fall, control blackberry by applying a 0.75 percent solution of this product. For control of blackberries after leaf drop and until killing frost or as long as stems are green, apply 4.5 to 6 pints of this product in 10 to 40 gpa of water.			
blackgum bracken	3 - 7.5	3 - 40	1 - 1.5
For control			
broom, French, Scotch	-	-	1 - 1.5
For control			
buckwheat, California	-	-	1 - 1.5
For partial control. Thorough coverage of foliage is necessary for best results.			
cascara	3 - 7.5	3 - 40	1 - 1.5
For partial control			
catsclaw	-	-	1
For partial control			
ceanothus	3 - 7.5	3 - 40	1 - 1.5
For partial control			
chamise	-	-	1
For control. Thorough coverage of foliage is necessary for best results.			
cherry, bitter, black, pin	3 - 4.5	3 - 40	1
For control			
coyote brush	-	-	1 - 1.5
For control. Apply when at least 50 percent of the new leaves are fully developed.			
dogwood	3 - 7.5	3 - 40	1 - 1.5
For partial control			
elderberry	3 - 4.5	3 - 40	1
For control			
elm	3 - 7.5	3 - 40	1 - 1.5
For partial control			
eucalyptus	-	-	1.5
For control of eucalyptus resprouts, apply when resprouts are 6 to 12 feet tall. Ensure complete coverage. Avoid application to drought-stressed plants.			
Florida holly (Brazilian peppertree) gorse	3 - 7.5	3 - 40	1 - 1.5
For partial control			
hasardia	-	-	1 - 1.5
For partial control. Thorough coverage of foliage is necessary for best results.			
hawthorn hazel	3 - 4.5	3 - 40	1
For control			

Weed Species	Rate (pt/acre)	Water Volume (gpa)	Handheld (% Solution)
hickory	3 - 7.5	3 - 40	1 - 1.5
For partial control			
honeysuckle	3 - 6	3 - 40	1
For control			
hornbeam, American	3 - 7.5	3 - 40	1 - 1.5
For partial control			
kudzu	6 - 7.5	3 - 40	1.5
For control. Repeat applications may be required to maintain control.			
locust, black	3 - 6	3 - 40	1 - 1.5
For partial control			
madrone resprouts	-	-	1.5
For partial control. Apply to resprouts that are 3 to 6 feet tall. Best results are obtained with spring/early summer treatments.			
manzanita	3 - 7.5	3 - 40	1 - 1.5
For partial control			
maple, red	3 - 6	3 - 40	1
For control, apply a 1 percent solution when at least 50 percent of the new leaves are fully developed. For partial control, apply 3 to 6 pints of this product per acre.			
maple, sugar	-	-	1
For control. Apply when at least 50 percent of the new leaves are fully developed.			
monkey flower	-	-	1 - 1.5
For partial control. Thorough coverage of foliage is necessary for best results.			
oak, black, white	3 - 6	3 - 40	1 - 1.5
For partial control			
oak, post	4.5 - 6	3 - 40	1
For control			
oak, northern	-	-	1
For control. Apply when at least 50 percent of the new pin leaves are fully developed.			
oak, southern red	3 - 4.5	3 - 40	1
For control			
persimmon	3 - 7.5	3 - 40	1 - 1.5
For partial control			
pine	3 - 7.5	3 - 40	1 - 1.5
For control			
poison ivy poison oak	6 - 7.5	3 - 40	1.5
For control. Repeat applications may be required to maintain control. Apply fall treatments before leaves lose green color.			
poplar, yellow	3 - 7.5	3 - 40	1 - 1.5
For partial control			
redbud, eastern	3 - 7.5	3 - 40	1 - 1.5
For control			
rose, multiflora	3	3 - 40	1
For control. Apply prior to leaf deterioration by leaf-eating insects.			
Russian olive	3 - 7.5	3 - 40	1 - 1.5
For partial control			
sage, black	-	-	1
For control. Thorough coverage of foliage is necessary for best results.			
sage, white	3 - 7.5	3 - 40	1 - 1.5
For partial control			
sagebrush, California	-	-	1

Weed Species	Rate (pt/acre)	Water Volume (gpa)	Handheld (% Solution)
For control. Thorough coverage of foliage is necessary for best results.			
salmonberry	3 – 4.5	3 - 40	1
For control			
saltcedar	3 - 7.5	3 - 40	1 - 1.5
For control			
sassafras sourwood	3 - 7.5	3 - 40	1 - 1.5
For partial control			
sumac, poison, smooth, winged	3 - 6	3 - 40	1 - 1.5
For partial control			
sweetgum	3 - 4.5	3 - 40	1
For control			
swordfern	3 - 7.5	3 - 40	1 - 1.5
For partial control			
tallowtree, Chinese	-	-	1
For control. Thorough coverage of foliage is necessary for best results.			
tan oak resprouts	-	-	1.5
For partial control. Apply to resprouts that are less than 3 to 6 feet tall. Best results are obtained with fall applications.			
thimbleberry	3 – 4.5	3 - 40	1
For control			
tobacco, tree	-	-	1 - 1.5
For partial control			
trumpet creeper	3 - 4.5	3 - 40	1
For control			
vine maple	3 - 7.5	3 - 40	1 - 1.5
For partial control			
Virginia creeper	3 - 7.5	3 - 40	1 - 1.5
For control			
waxmyrtle, southern	3 - 7.5	3 - 40	1 - 1.5
For partial control			
willow	4.5 – 6	3 - 40	1
For control			

Conditions of Sale and Limitation of Warranty and Liability:

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of ALBAUGH or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ALBAUGH and Seller harmless for any claims relating to such factors. Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ALBAUGH MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT. To the extent consistent with applicable law, any warranties, express or implied, having been

made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or ALBAUGH, and buyer assumes the risk of any such use.

To the extent consistent with applicable law,, ALBAUGH or seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, tHE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ALBAUGH AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ALBAUGH OR SELLER, THE REPLACEMENT OF THE PRODUCT.

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement.

All product names, trademarks, and registered trademarks are the property of their respective owners.

[OPTIONAL MARKETING GRAPHICS]



01222024

[LABEL HISTORY]
[(Not included in final printed labeling)]

File Name	Version Mark	Comment
	04192023	Transfer from Corteva to Albaugh Date
083100-00076.20230512.DRAFT	05122023	Label amendment to include changes (amendment) submitted 6/03/21 and Albaugh Language
083100-00076.20240122.DRAFT	01222024	EPA Requested Label Changes

[Sub Label B: Non-Ag Uses]

(Base label):

GLYPHOSATE	GROUP	9	HERBICIDE
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GF-1280

HERBICIDE

[Alternate Brand Name: Accord[®] XRT II, Duramax[®], Durango DMA, Glyphomax]

- A non-selective broad spectrum systemic herbicide for control of annual and perennial weeds and woody plants
- Conservation Reserve Program (CRP), rangeland and permanent grass pastures;
- forest sites, conifer plantations;
- railroads
- natural areas (open space) including: campgrounds, prairie management, trails and trailheads, wildlife openings and wildlife habitat and management areas;
- grazed areas on all of these listed sites

Avoid contact of herbicide with foliage, green stems, exposed non-woody roots or fruit of crops, desirable plants and trees, because severe injury or destruction may result.

Active Ingredient:

glyphosate: N-(phosphonomethyl)glycine, dimethylamine salt	50.2%
Other Ingredients	49.8%
Total	100.0%

Contains 5.07 lb per gallon glyphosate, dimethylamine salt (4 lb per gallon glyphosate acid).

Keep Out of Reach of Children

CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

Causes Moderate Eye Irritation • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals

Avoid contact with skin, eyes or clothing.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves made
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

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 thoroughly after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For non-emergency exposure information on this product, call 1-888-347-6732 (7 days/week, 24-hr). For medical emergencies, dial 911.

For 24-hour chemical spill, leak, fire, exposure or accident response information, call CHEMTREC toll free at 1-800-424-9300.

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

Environmental Hazards

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

Physical or Chemical Hazards

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

Do not mix, store or apply this product or spray solutions of this product in galvanized steel or unlined steel (except stainless steel) containers or spray tanks. This product, or spray solutions of this product react with such containers and tanks to produce hydrogen gas that may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

(Storage and Disposal for rigid containers 5 gal or less)**Storage and Disposal**

Pesticide Storage: Do not contaminate water, food, feed or seed by storage or disposal.

Pesticide Disposal: Wastes of this pesticide may cause eye and skin irritation and may be dangerous. Improper disposal of excess pesticide, spray mixtures, or rinsate is a violation of Federal law. If these wastes cannot be disposed of according to label use instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

(Storage and Disposal for refillable rigid containers larger than 5 gal)**Storage and Disposal**

Pesticide Storage: Do not contaminate water, food, feed or seed by storage or disposal.

Pesticide Disposal: Wastes resulting from the use of this product that cannot be used or chemically reprocessed must be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures. Emptied container contains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

(Storage and Disposal for nonrefillable rigid containers larger than 5 gal)**Storage and Disposal**

Pesticide Storage: Do not contaminate water, food, feed or seed by storage or disposal.

Pesticide Disposal: Wastes resulting from the use of this product that cannot be used or chemically reprocessed, must be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures. Emptied container contains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert

pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

[See [inside] booklet for [additional] [complete] [First Aid,] [Precautionary Statements,] [Directions For Use,] [Storage and Disposal,] [and] [Conditions of Sale and Warranty].]

Notice: Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

For non-emergency exposure information on this product, call 1-888-347-6732 (7 days/week, 24-hr). For medical emergencies, dial 911.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 83100-76

EPA Est. _____

All product names, trademarks, and registered trademarks are the property of their respective owners.

**Manufactured [for] [by]
Albaugh, LLC
1525 NE 36th Street
Ankeny, IA 50021**

NET CONTENTS __

(cover, shipping container):

GLYPHOSATE	GROUP	9	HERBICIDE
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GF-1280

HERBICIDE

- A non-selective broad spectrum systemic herbicide for control of annual and perennial weeds and woody plants in
- Conservation Reserve Program (CRP), rangeland and permanent grass pastures
- forest sites, conifer plantations;
- railroads
- natural areas (open space) including: campgrounds, prairie management, trails and trailheads, wildlife openings and wildlife habitat and management areas;
- grazed areas on all of these listed sites

Avoid contact of herbicide with foliage, green stems, exposed non-woody roots or fruit of crops, desirable plants and trees, because severe injury or destruction may result.

Active Ingredient:

glyphosate: N-(phosphonomethyl)glycine, dimethylamine salt	50.2%
Other Ingredients	49.8%
Total	100.0%

Contains 5.07 lb per gallon glyphosate, dimethylamine salt (4 lb per gallon glyphosate acid).

Keep Out of Reach of Children

CAUTION

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

[See [inside] booklet for [additional] [complete] [First Aid,] [Precautionary Statements,] [Directions For Use,] [Storage and Disposal,] [and] [Conditions of Sale and Warranty].] Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

For non-emergency exposure information on this product, call 1-888-347-6732 (7 days/week, 24-hr). For medical emergencies, dial 911.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

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1525 NE 36th Street
Ankeny, IA 50021**

NET CONTENTS ___

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Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Causes Moderate Eye Irritation • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals

Avoid contact with eyes or clothing.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

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 thoroughly after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For non-emergency exposure information on this product, call 1-888-347-6732 (7 days/week, 24-hr). For medical emergencies, dial 911.

For 24-hour chemical spill, leak, fire, exposure or accident response information, call CHEMTREC toll free at 1-800-424-9300.

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

Environmental Hazards

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

Physical or Chemical Hazards

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

Do not mix, store or apply this product or spray solutions of this product in galvanized steel or unlined steel (except stainless steel) containers or spray tanks. This product, or spray solutions of this product react with such containers and tanks to produce hydrogen gas that may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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
- Waterproof gloves
- Shoes plus socks

Non-Agricultural Use Requirements

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

Keep people and pets off treated areas until spray solution has dried.

Storage and Disposal

Pesticide Storage: Do not contaminate water, food, feed or seed by storage or disposal.

Pesticide Disposal: Wastes resulting from the use of this product that cannot be used or chemically reprocessed must be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures. Emptied container contains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

Nonrefillable containers 5 gallons or less:

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Refillable containers larger than 5 gallons:

Container Handling: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Nonrefillable containers 5 gallons or larger:

Container Handling: Nonrefillable container. Do not reuse or refill this container. .

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

Product Information

This product is a broad spectrum, systemic, postemergence herbicide with no soil residual activity. It is intended for control of annual and perennial weeds and woody plants and brush. It is formulated as a water soluble liquid containing surfactant; no additional surfactant is needed.

Time to Symptoms: The active ingredient in this product moves through the plant from the point of foliage contact into the root system. Visible effects on most annual weeds occur within two to four days, but on most perennial weeds visible effects may not occur for seven days or more. Extremely cool or cloudy weather following treatment may slow activity of this product and delay development of visual symptoms. Visible effects are a gradual wilting and yellowing of the plant that advances to complete browning of above ground growth and deterioration of underground plant parts.

Stage of Weeds: Annual weeds are easiest to control when they are small. Best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity or when translocation is mostly down to the roots, i.e. autumn for perennial plants or woody plants.

Mode of Action: Glyphosate works by targeting an enzyme that is essential for plant growth.

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

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

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

Maximum Application Rates: The maximum application rates specified in this label are given in units of volume, either fluid ounces, pints or quarts, of this product per acre. The maximum allowed application rates apply to this product combined with the use of any and all other glyphosate-containing herbicides, either applied separately or in a tank mix, on the 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, ensure that the total of pounds acid equivalent glyphosate does not exceed the maximum allowed. Do not apply more than a total of 8 quarts (8 lb glyphosate acid) of this product per acre per year.

Herbicide Resistance Management

For resistance management, GF-1280 is a Group 9 herbicide. Any weed population may contain or develop plants naturally resistant to GF-1280 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.

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

- Rotate the use of GF-1280 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.
- For further information or to report suspected resistance, contact Albaugh at 1-800-247-8013. Appropriate testing is needed to determine if a weed is resistant to glyphosate. The following good agronomic practices can reduce the spread of confirmed glyphosate-resistant biotypes:
 - Tank mix this product or apply it sequentially with an appropriately labeled herbicide with a different mode of action to achieve control if a naturally occurring resistant biotype is present in the field.
 - Cultural and mechanical control practices, such as crop rotation or tillage, may also be used.
 - To control weed escapes, including resistant biotypes, before they set seed, scout treated fields after applying this product.
 - Thoroughly clean equipment before leaving any site known to contain resistant biotypes.

Because the presence of glyphosate resistance in weed populations is difficult to detect prior to use, Albaugh accepts no liability for any losses that may result from the failure of this product to control glyphosate-resistant weeds, to the extent permitted by law.

Glyphosate-Resistant Ryegrass (Not for Use in California)

Preemergence: To control other emerged weeds, apply this product in a tank mix with a preemergence herbicide labeled for control of ryegrass.

Preemergence and Postemergence: To control other emerged weeds, apply this product in a tank mix with a residual preemergence herbicide and a postemergence herbicide (other than glyphosate) labeled for control of ryegrass. Apply before the ryegrass is more than 4 inches in height.

Postemergence: To control other emerged weeds, apply this product in a tank mix with another postemergence herbicide labeled for control of ryegrass. Apply according to the herbicide label directions for optimum control of ryegrass.

Attention:

Avoid contact of herbicide with foliage, green stems, exposed non-woody roots or fruit of crops, desirable plants and trees, because severe injury or destruction may result.

Avoid Drift. Use extreme care when applying this product to prevent injury to desirable plants and crops.

Do not allow the herbicide solution to mist, drip, drift or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended. The likelihood of injury occurring from the use of 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) which are likely to drift. **Avoid applying at excessive speed or pressure.**

NOTE: Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

Spray Drift Management

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

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

The applicator must be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory.

Aerial Drift Reduction Advisory

This section is advisory in nature and does not supersede the mandatory label requirements.

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 adverse effects from drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

Controlling Droplet Size:

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - Do not exceed the nozzle manufacturer's recommended pressures. Use the lower spray pressures for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of nozzles** - Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle orientation** - Orienting nozzles so that the spray is parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from 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 the largest droplets and the lowest drift.

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

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

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

Wind: Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Avoid application when

winds are below 2 mph due to variable wind direction and high inversion potential. **Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

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

Temperature Inversions: Applications must not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, 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 connected cloud (under low wind conditions) indicates an inversion, while smoke that moves upwards and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas: The pesticide must only be applied 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).

Mixing Directions

Use only clean, stainless steel, fiberglass, plastic or plastic-lined steel containers to mix, store and apply spray solutions of this product.

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

Note: Reduced results may occur if water containing soil is used, such as visibly muddy water or water from ponds and ditches that is not clear.

GF-1280– Alone

This product mixes readily with water. Mix spray solutions of this product as follows:

1. Fill the mixing or spray tank with the required amount of clean water.
2. Add the specified amount of this product near the end of the filling process and mix well.
3. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foaming, avoid the use of mechanical agitators, terminate by-pass and return lines at the bottom of the tank and, if needed, use an approved anti-foam or defoaming agent.

GF-1280 Tank Mixing for use on any site listed on this labels not provide residual weed control. For residual weed control or to broaden the weed control spectrum, tank mix this product with other herbicides. 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. A compatibility test may be done prior to using a product that has not been tank mixed before with this product in your program. See testing procedure below.

The user is responsible for ensuring that the specific application being made is included on the label of the product used in the tank mix and is compatible with this product, especially if using a generic product with active ingredients, such as 2,4-D, atrazine, dicamba, diuron, pendimethalin or other herbicide, is listed in the label.

Add the tank mix product to the tank as directed by the label. Maintain agitation and add the required amount of this product. Maintain good agitation at all times until the contents in the tank are sprayed. If the mixture is allowed to settle, thorough agitation is required to resuspend the mixture before spraying resumes. Keep the bypass line on or near the bottom of the tank to minimize foaming. The screen size in the nozzle or line strainers must be no finer than 50 mesh.

Tank Mix Compatibility Testing: Perform a jar test prior to mixing in a spray tank to ensure compatibility of this product and other pesticides or carriers. Use a clear glass jar with lid and mix ingredients in the same order and proportions as will be used in the spray tank. The mixture is compatible if the materials mix readily when the jar is inverted several times. The mixture should remain stable after standing for 1/2 hour or, if separation occurs, should readily remix if agitated. An incompatible mixture is indicated by separation into distinct layers that do not readily remix when agitated and/or the presence of flakes, precipitates, gels, or heavy oily film in the jar. Use of an appropriate compatibility aid may resolve mix incompatibility. If the mixture is incompatible do not use that tank mix partner in tank mixtures.

Note: If tank mixing with a product containing triclopyr amine, such as Garlon® 3A herbicide (EPA Reg. No. 62719-37) or Capstone (EPA Reg. No. 62719-572), ensure that the triclopyr amine product is well mixed with at least 75 percent of the total spray volume before adding this product to the spray tank to avoid incompatibility.

To the extent consistent with applicable law, buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly specified in this labeling. Mixing this product with herbicides or other materials not specified on this label may result in reduced performance.

Handheld Sprayers

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

Spray Concentration (percent)	Amount of This Product for Desired Volume		
	1 gal	25 gal	100 gal
0.5	2/3 fl oz	1 pt	2 qt
0.75	1 fl oz	24 fl oz	3 qt
1	1 1/3 fl oz	1 qt	1 gal
1.5	2 fl oz	1 1/2 qt	1 1/2 gal
2	2 2/3 fl oz	2 qt	2 gal
3.75	5 fl oz	3 3/4 qt	3 3/4 gal
5	6 1/2 fl oz	5 qt	5 gal
10	13 fl oz	10 qt	10 gal

For best results when using knapsack sprayers, mix the specified amount of this product with water in a larger container. Fill sprayer with the mixed solution.

Colorants or Dyes

Agriculturally-approved colorants or marking dyes may be added to this product. Colorants or dyes used in spray solutions of this product may reduce performance, especially at lower rates or dilutions. Use colorants or dyes according to the manufacturer's directions.

Application Equipment and Application Methods

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

This product may be applied with the following application equipment. Apply spray solutions in properly maintained and calibrated equipment capable of delivering desired volumes.

Aerial Application in All States Except California (see below for California aerial application information)

Apply this product using aerial spray equipment only under conditions as specified within this label.

Avoid drift. Do not apply when winds are gusty or under any other condition which favors drift. Drift may cause damage to any vegetation contacted to which treatment is not intended. To prevent injury to adjacent desirable vegetation, maintain appropriate buffer zones.

Do not directly apply to any body of water.

Use the specified rates of this herbicide in 3 to 25 gpa of water unless otherwise specified on this label. Refer to the specific use directions of this label for volumes and application rates.

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations that dispense spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure. A drift control additive may be used. When a drift control additive is used, carefully read and observe the precautionary statements and all other information specified on the additive label.

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

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. **Prolonged exposure of this product to uncoated steel surfaces may result in corrosion and possible failure of the part. Landing gear components are most susceptible.** The maintenance of an organic coating (paint), which meets aerospace specification MIL-C-38413, may prevent corrosion.

Aerial Application in California Only

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

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

When this product is applied under the conditions described, it controls annual and perennial weeds listed in the label affixed to the container.

Only 2,4-D amine formulations may be used for aerial applications in California. Tank mixes with 2,4-D amine formulations may be applied by air in California for fallow and reduced tillage systems, and for alfalfa and pasture renovation applications only. Do not aerially apply any tank mixes with dicamba in California.

Additional Information for Fresno County, California: Within the boundaries of Fresno County, California, the following information applies only from February 15 through March 31:

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

Always read and follow the label directions and precautionary statements for all products used in the aerial application. Observe the following directions to minimize off-site movement during aerial applications of this product. Minimizing off-site movement is the responsibility of the grower, pest control advisor and aerial applicator.

Written Directions: A written direction **must** be submitted by or on behalf of the applicator to the Fresno County Agricultural Commissioner 24 hours prior to application. The written direction **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: Aerially applying 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. To insure proper rates of herbicides and adjuvants are being applied during commercial use, test and calibrate the spray equipment at appropriate intervals. Demonstration of performance at Fresno County Agricultural Commissioner approved fly-ins constitutes such documentation, or other written records showing calculations and measurements of flight and spray parameters acceptable to the Fresno County Agricultural Commissioner.

Applications at Night: Do not aerially apply this product earlier than 30 minutes prior to sunrise and/or later than 30 minutes after sunset. Doing so requires prior permission from the Fresno County Agricultural Commissioner.

Ground Application

Apply the specified rates of this product in 3 to 40 gpa of water as a broadcast spray unless otherwise specified on this label. Increase the spray volume within the rate range as density of weeds increases to ensure complete coverage. In order not to spray a fine mist, carefully select proper nozzles. Use flat fan nozzles for best results with ground application equipment. Check spray pattern for uniform distribution of spray droplets.

Handheld and Backpack Application

Apply to foliage of vegetation to be controlled. Do not spray to the point of runoff for applications made on a spray to wet basis. Use coarse sprays only. For low volume directed spray applications, spray coverage should be uniform with at least 50 percent of the foliage contacted. For best results, cover the top one-half of the plant. To ensure adequate spray coverage, spray both sides of large or tall woody brush and trees, when foliage is thick and dense, or where there are multiple sprouts.

Selective Equipment

This product may be diluted with water and applied through shielded applicators, hooded sprayers, wiper applicators or sponge bars to weeds listed on this label. Avoid contact of herbicide with desirable vegetation as serious injury or death is likely to occur.

Adjust application equipment used above desired vegetation so that the lowest spray stream or wiper contact is at least 2 inches above the desirable vegetation. Droplets, mist, foam, or splatter of the herbicide settling on desirable vegetation is likely to result in discoloration, stunting or destruction.

Better results are obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations, or when the height of weeds varies so that not all weeds are contacted. If this occurs, repeat treatment may be necessary.

Shielded and Hooded Applicators

A shielded or hooded applicator directs the herbicide solution onto weeds while shielding desirable vegetation from the herbicide. A hooded sprayer is a shielded sprayer in which the spray pattern is totally enclosed, including the top, sides, front, and back. Use nozzles that provide uniform coverage within the

treated area. Keep shields on these sprayers adjusted to protect desirable vegetation. **Exercise extreme care to avoid contact of herbicide with desirable vegetation.**

Wiper Applicators

Wiper applicators are devices that physically wipe appropriate amounts of this product directly onto the weed. Equipment must be designed, maintained and operated to prevent the herbicide solution from contacting desirable vegetation.

Adjust application equipment used over the top of desirable vegetation so that the wiper contact point is at least 2 inches above the desirable vegetation. Better results are obtained when more of the weed is exposed to the herbicide solution. Weeds should be a minimum of 6 inches above the desirable vegetation. Adjust the applicator height to ensure adequate contact with weeds as weeds not contacted by the herbicide solution will not be affected. Poor contact may occur when weeds are growing in dense clumps, in severe weed infestations, or when weed height varies dramatically. If this occurs, repeat treatment may be necessary.

Operate this equipment at ground speeds no more than 5 mph. Performance may be improved by reducing speed in areas of heavy weed infestations to ensure adequate wiper saturation. Better results may be obtained if two applications are made in opposite directions.

Droplets, mist, foam, or splatter of the herbicide settling onto desirable vegetation may result in discoloration, stunting or destruction. Avoid leakage or dripping onto desirable vegetation. Adjust height of applicator to ensure adequate contact with weeds. Keep wiping surfaces clean. Be aware that on sloping ground the herbicide solution may migrate, causing dripping on the lower end and drying of the wicks on the upper end of a wiper applicator.

Do not use wiper equipment when weeds are wet.

Mix only the amount of solution to be used during a one-day period as reduced activity may result from use of leftover solutions. Clean wiper parts by thoroughly flushing with water immediately after using this product.

Rope or Sponge Wick Applicators

Use 25 to 70 percent solutions of this product in water.

Panel Applicators and Pressure Feed Systems

Solutions ranging from 25 to 100 percent of this product in water may be used.

This product controls the following weeds when applied as directed:

corn, volunteer	sicklepod
panicum, Texas	Spanish needles
rye, common	starbur, bristly
shattercane	

This product suppresses the following weeds when applied as directed:

beggarweed, Florida	ragweed, common
bermudagrass	ragweed, giant
dogbane, hemp	smutgrass
dogfennel	sunflower
guineagrass	thistle, Canada
johnsongrass	thistle, musk
milkweed	vaseygrass
nightshade, silverleaf	velvetleaf
pigweed, redroot	

Injection Systems

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

CDA Equipment

The rate of this product applied per acre by vehicle-mounted controlled droplet application (CDA) equipment must not be less than the amount specified in this label when applied by conventional broadcast equipment. For vehicle-mounted and handheld CDA equipment, apply in 2 to 15 gpa of water.

Controlled droplet application equipment produces a spray pattern that is not easily visible. Exercise extreme care to avoid spray or drift contacting the foliage or any other green tissue of desirable vegetation, as damage or destruction may result.

Application Directions

- **Conservation Reserve Program (CRP), rangeland and permanent grass pastures;**
- **forest sites, conifer plantations;**
- **railroads**
- **natural areas (open space) including: campgrounds, prairie management, trails and trailheads, wildlife openings and wildlife habitat and management areas;**
- **Grazed areas on all of these listed sites**

This product may also be used in non-food crop sites, including: Christmas tree farms, plant nurseries, and sod or turfgrass seed farms.

Apply this product to control any weeds listed in the Weeds Controlled section of the label unless otherwise specified.

Cut Stump

This product will control regrowth of cut stumps and resprouts of many types of woody brush and tree species, some of which are listed below. Apply this product using suitable equipment to ensure coverage of the entire cambium. Cut trees or resprouts close to the soil surface. Apply a 50 percent solution with 50 percent water or 100 percent solution of this product to the freshly cut surface immediately after cutting. Delays in application may result in reduced performance. The cambium area next to the bark is the most vital area to wet but be sure to apply the herbicide solution to a complete ring of exposed cambium including when the bark may have torn down the side of the stump. For best results, make applications during periods of active growth and full leaf expansion.

alder	reed, giant
eucalyptus	saltcedar
madrone	sweetgum
oak	tan oak
pepper, Brazilian	willow
pine, Austrian	

Restrictions:

- Do not make cut stump applications when the roots of desirable woody brush or trees may be grafted to the roots of the cut stump. Some sprouts, stems, or trees may share the same root system.
- Adjacent trees that are of a similar age, height and spacing may indicate shared roots.
- Injury is likely to occur to non-treated stems or trees when one tree or more that shares a common root is treated.

Forestry Management

This product is for the control or partial control of woody brush, trees and herbaceous weeds in forestry. This product is also for use in preparing or establishing wildlife openings within these sites and maintaining logging roads.

See Tank Mixing section above for more information.

Note: For forestry site preparation, make sure the tank mix product is approved for use prior to planting the desired species. Observe planting interval restrictions.

Note: If tank mixing with a product containing triclopyr amine or triclopyr + aminopyralid ensure that the triclopyr amine product is well mixed with at least 75 percent of the total spray volume before adding this product to the spray tank to avoid incompatibility. Site Preparation in forestry sites, use this product in site preparation prior to planting any tree species including Christmas trees, eucalyptus, hybrid tree cultivars, and establishing silvicultural nursery sites.

For optimum results, use 4 – 8 quarts of this product per acre. Use a higher rate in the rate range for control or partial control of woody brush, trees and hard to control perennial herbaceous weeds. For best results, apply to actively growing woody brush and trees after full leaf expansion and before fall color and leaf drop. Use increased rates within the rate range to control perennial herbaceous weeds. Use a lower rate in the rate range to control annual herbaceous weeds. Apply to foliage of actively growing annual herbaceous weeds any time after emergence.

Restrictions:

- Do not apply this product as an over the top broadcast spray for forestry conifer or hardwood release unless otherwise specified on this label.

Conifer Release, Mid-Rotation Conifer Release, and Hardwood Release

Apply this product as a directed spray, with selective equipment, and as an individual plant treatment for woody and herbaceous weeds in conifer plantations and hardwood sites, Christmas tree plantations and silvicultural nurseries for conifer release or mid-rotation release applications around conifers and hardwoods.

Make applications using application techniques that prevent or minimize direct contact to the foliage of crop trees (including in stands of pine, other conifers, or hardwood). Avoid contact of spray drift, mist or drips with foliage, green bark or non-woody surface roots of desirable plant species. Use directed sprays and ground equipment with nozzles oriented to target only undesirable understory vegetation below the crop tree canopy.

Mid-Rotation Conifer Release and Spot Treatments for Crop Tree Release and Timber Stand Improvement

Apply this product as a ground broadcast or directed spray application for mid-rotation release applications under the canopy of pines, other conifers and hardwoods. Make applications using application techniques that prevent or minimize direct contact to the foliage of crop trees (including in stands of pine, other conifers, or hardwoods). Use directed sprays and ground equipment with nozzles oriented to target only undesirable understory vegetation below the crop tree canopy. When making spot applications for woody and herbaceous weeds, do not allow spray to contact the foliage of desirable crop trees.

Unimproved Rough Turf

See Tank Mixing section above for more information.

Note: If tank mixing with a product containing triclopyr amine, such as Garlon® 3A herbicide (EPA Reg. No. 62719-37) or Capstone (EPA Reg. No. 62719-572), ensure that the triclopyr amine product is well mixed with at least 75 percent of the total spray volume before adding this product to the spray tank to avoid incompatibility.

Spot Treatment, Trim and Edge, and Bareground (can be used on any site on this label)

This product may be on any industrial turfgrass listed on the label for spot treatment of unwanted vegetation, for trim and edge application around objects, and to eliminate unwanted weeds before a

construction project begins or asphalt or other material is laid for a road. This product may be used prior to planting an area to or turfgrass (sod or seed) to remove unwanted weeds growing in established shrub beds.

To maintain bareground, repeated applications of this product may be used.

This product provides control of emerged annual weeds and control or partial control of emerged perennial weeds, woody brush and trees when applied in a tank mix to bareground.

See Tank Mixing section above for more information.

Note: If tank mixing with a product containing triclopyr amine, such as Garlon® 3A herbicide (EPA Reg. No. 62719-37) or Capstone (EPA Reg. No. 62719-572), ensure that the triclopyr amine product is well mixed with at least 75 percent of the total spray volume before adding this product to the spray tank to avoid incompatibility.

To control or partially control the following perennial weeds, apply 1.5 to 3 pints of this product plus 2 to 4 oz of Oust XP 432-1552 (sulfometuron) per acre.

bahiagrass	fescue, tall
bermudagrass	johnsongrass
broomsedge	poorjoe
dallisgrass	quackgrass
dock, curly	vaseygrass
dogfennel	vervain, blue

Chemical Mowing

This product suppresses perennial and annual grasses listed in this section to serve as a substitute for mowing.

Perennials: Apply this product at a rate of 6 fl oz per acre to suppress tall fescue, fine fescue, orchardgrass, quackgrass or reed canarygrass covers. Use 4.6 fl oz of this product per acre for suppression of Kentucky bluegrass. Apply treatments in 10 to 40 gpa. Use only in areas where some temporary injury or discoloration of perennial grasses can be tolerated.

Annuals: For growth suppression of annual ryegrass, wild barley and wild oats growing in coarse turfgrass on roadsides apply 3 to 3.75 fl oz of this product in 10 to 40 gpa. Apply when annual grasses are actively growing and before the seedheads are in the boot stage of development. Treatments may cause injury to the desired grasses.

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

Apply 6 fl oz to 1.5 quarts of this product per acre in 10 to 40 gpa of water. Use only in areas where bermudagrass or bahiagrass are desirable groundcovers and where some temporary injury or discoloration can be tolerated. For best control of winter annuals, apply when plants are less than 6 inches tall in an early growth stage, and after most of them have germinated. For best control of tall fescue, apply when the tall fescue is at or beyond the 4 to 6 leaf stage.

Treatments in excess of 12 fl oz of this product per acre may result in injury or delayed greenup in highly maintained areas, such as golf courses and lawns.

Restrictions:

Do not apply tank mixes of this product plus Oust XP in highly maintained turfgrass areas where grass selectively is desired.

Actively Growing Bermudagrass: This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing bermudagrass. Injury of some bermudagrass could occur from applying this product, but the bermudagrass will recover under moist conditions after the effects of the product wear off. Use only in areas where some temporary injury or discoloration can be tolerated.

Apply 12 to 35 fl oz of this product in 10 to 40 gpa to control or partially control many annual and perennial weeds in order to effectively release actively growing bermudagrass. Use a lower rate in the rate range to control weeds less than 6 inches tall (or runner length). Use a higher rate in the rate range as weeds increase in size or as the flower or seed head forms. This product provides partial control of the following perennial species in actively growing bermudagrass.

bahiagrass	johnsongrass
bluestem, silver	trumpetcreeper
fescue, tall	vaseygrass

Restrictions:

- Do not apply more than 12 fl oz of this product per acre in highly maintained turfgrass areas where grass selectively is desired.

Tank Mixes: Tank mix this product with Outrider 59639-223 (sulfosulfuron) or Oust XP for a broader weed control spectrum in actively growing bermudagrass. Apply the tank mixes only on well established bermudagrass where some temporary injury or discoloration can be tolerated.

Apply 6 fl oz to 1.5 pints of this product per acre with 0.75 to 1.33 oz of Outrider to control or partially control johnsongrass and other weeds listed on the Outrider label. Use the higher rate in the rate range of both products to control annual or perennial weeds more than 6 inches tall.

Apply 12 fl oz to 1.5 pints of this product per acre with 1 to 2 oz of Oust XP for enhanced control of weeds listed on the Oust XP label. Use the lower rate in the rate range to control annual weeds less than 6 inches tall (or runner length) listed on the labels. Use a higher rate in the rate range as annual weeds increase in size and as the flower or seed head forms. This tank mix provides partial control of the following perennial weeds in actively growing bermudagrass.

bahiagrass	fescue, tall
blackberry	johnsongrass
bluestem, silver	poorjoe
broomsedge	raspberry
dallisgrass	trumpetcreeper
dewberry	vaseygrass
dock, curly	vervain, blue
dogfennel	

Restrictions:

- Do not apply tank mixtures of this product plus Oust XP in highly maintained bermudagrass where grass selectively is desired.

Actively Growing Bahiagrass: To suppress vegetative growth and seed head inhibition of bahiagrass for approximately 45 days, apply 4.6 fl oz of this product in 10 to 40 gpa of water. Apply one to two weeks after full greenup or after mowing to a uniform height of 3 to 4 inches and prior to seed head emergence.

To suppress growth of bahiagrass up to 120 days, apply 3.5 fl oz of this product per acre and follow it with an application of 2 to 3.5 fl oz per acre approximately 45 days later. Do not make more than two growth suppression applications per year unless otherwise directed.

Tank Mixes: Tank mix this product with Outrider or Oust XP for a broader weed control spectrum in actively growing bahiagrass. Apply the tank mixes only on well established bahiagrass where some temporary injury or discoloration can be tolerated.

Apply 4.6 fl oz of this product per acre with 0.75 to 2 oz of Outrider per acre to control or partially control johnsongrass and other weeds listed on the Outrider label. Use the higher rate in the rate range for Outrider to control annual and perennial weeds more than 6 inches tall.

Apply 4.6 fl oz of this product per acre with 0.25 oz of Oust XP per acre for enhanced control of weeds listed on the Oust XP label in actively growing bahiagrass one to two weeks following an initial spring mowing. Do not apply this tank mix more than once per year.

Turfgrass Renovation, Seed, or Sod Production

This product controls most existing vegetation prior to renovating turfgrass areas or establishing turfgrass grown for seed or sod. For maximum control of existing vegetation, delay planting or sodding to determine if any regrowth from escaped underground plant parts occurs. When repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm season turfgrass, such as bermudagrass, summer or fall applications provide the best control. 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 spray.

Desirable turfgrass may be planted following the above procedures.

Handheld equipment may be used for spot treatment of unwanted vegetation growing in existing turfgrass. Use broadcast or handheld equipment to control sod remnants or other unwanted vegetation after sod is harvested.

Restrictions:

- Do not disturb soil or underground plant parts before treatment.
- Delay tillage or renovation techniques, such as vertical mowing, coring or slicing, for seven days after application to allow translocation into underground plant parts.
- If the application rate used is 2 quarts or less per acre, no waiting period is required between treatment and feeding or grazing livestock.
- If the application rate used is more than 2 quarts per acre, remove livestock before applying this product and wait 8 weeks after applying before resuming grazing or harvesting.

See Tank Mixing section above for more information.

Natural Areas and Wildlife Habitat Management

See Tank Mixing section above for more information.

Habitat Restoration and Management

This product may be used to control exotic and other undesirable vegetation in habitat management and natural areas, including rangeland and wildlife refuges. Apply to allow recovery of native plant species, prior to planting desirable native species, and for similar broad spectrum vegetation control requirements. Apply spot treatments to selectively remove unwanted plants for habitat maintenance and enhancement.

Wildlife Food Plots

This product may be used as a site preparation treatment to control annual and perennial weeds prior to planting wildlife food plots. Any wildlife food species may be planted after applying this product, or native species may be allowed to repopulate the area. If tillage is needed to prepare a seedbed, wait 7 days after application before tillage to allow translocation into underground plant parts.

Hollow Stem Injection

Apply this product through handheld injection devices that deliver the specified amount of this product into targeted hollow stem plants growing in any site listed on this label. To control the following hollow stem plants, follow the use directions below:

Target Plants		Use Directions
Common Name	Scientific Name	
castorbean	<i>Ricinus communis</i>	Inject 4 mL of this product per plant into the lower portion of the main stem
hemlock, poison	<i>Conium maculatum</i>	Inject one leaf cane per plant, 10 to 12 inches above the root crown, with 5 mL of a 5 percent by volume solution of this product.
hogweed, giant	<i>Hercleum mantegazzianum</i>	Inject one leaf cane per plant 12 inches above the root crown with 5 mL of a 5 percent by volume solution of this product.
horsetail, field	<i>Equisetum arvense</i>	Inject one segment above the root crown with 0.5 mL of this product per stem using a low volume syringe capable of accurately delivering this amount of product.
knotweed, bohemian and other species	<i>Polygonum bohemicum</i>	Inject 5 mL of this product per stem between the second and third internode.
knotweed, giant	<i>Polygonum sachalinense</i>	
knotweed, Japanese	<i>Polygonum cuspidatum</i>	
reed, giant	<i>Arundo donax</i>	Inject 6 mL of this product per stem between the second and third internode.
thistle, Canada	<i>Circisum arvense</i>	Cut 8 to 9 of the tallest plants at bud stage in a clump with clippers. Use a cavity needle pushed into the stem center and then slowly removed as 0.5 mL of this product per stem is injected into the stem.

Restrictions:

- Do not apply more than a total of 2 gallons of this product per acre for all treatments combined. At 5 mL per stem, 2 gallons will treat approximately 1300 stems per acre.

Injection and Frill (Woody Brush and Trees)

This product may be used to control woody brush and trees by injection or frill applications. Apply this product using suitable equipment that penetrates into the living tissue. Apply the equivalent of 1 mL (0.04 fl oz) of this product per each two to three inches of trunk diameter at breast height (DBH). This is best achieved by applying a 50 to 100 percent concentration of this product either to a continuous frill around the tree or as cuts evenly spaced around the tree below all branches. As tree diameter increases in size, better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings. Do not make any applications that allow runoff to occur from frilled or cut areas in species that exude sap freely. In species such as this, make the frill or cuts at an oblique angle to produce a cupping effect and use a 100 percent undiluted concentration of this product. For best results, apply during periods of active growth and after full leaf expansion. This product controls many species; some of these species are listed below.

Control

oak
poplar
sweetgum
sycamore

Partial Control

black gum
dogwood
hickory
maple, red

Non-Food Tree, Shrub, or Vine Production Sites (Not for Use in California)

Types of Applications: Site preparation, post-directed trim and edge, wiper application

This product may be used for general weed control prior to the planting of and around established any woody tree, shrub, or vine species, including arborvitae, azalea, boxwood, crabapple, eucalyptus, euonymus, fir, Douglas- fir, jojoba, hollies, lilac, magnolia, maple, oak, poplar, privet, pine, spruce, and yew, growing in plant nurseries, on Christmas tree farms, or on other non-food tree production sites.

Use this product to control weeds growing in and around greenhouses and shadehouses. During application, desirable vegetation must not be present. Air circulation fans must be turned off until after the application has dried.

Do not use this product as an over the top broadcast spray in Christmas trees unless otherwise directed. Take care to avoid contact of spray, drift, or mist with foliage or green bark of desirable ornamental species.

See Tank Mixing section above for more information.

Site Preparation

Use this product prior to planting any tree, shrub, or vine, including Christmas tree species, in a nursery or production setting.

Post-Directed Trim and Edge

Use this product as a post-directed spray around trim and edge around trees, buildings, sidewalks, roads, potted plants, and other objects in a production setting. Protect desirable plants from the spray solution by using shields or coverings made of cardboard or other impermeable material.

Wiper Application

Use this product through wick or other suitable wiper applicators to control or partially control undesirable vegetation around established trees, shrubs, or vines. See Selective Equipment section of this label for further information about the proper use of wiper applicators.

Poplar (*Populus* spp.) Production

Types of Applications: Preplant, in-crop, wiper applicator

Preplant

This product is for use prior to planting *Populus* species, including hybrid poplars and hybrid cottonwoods.

In-Crop

Use a 1.5 percent spray solution as a spray to wet application for the control of undesirable woody brush and trees. To control herbaceous weeds, use a 0.75 to 1.5 percent solution. Avoid contact of spray, drift, or mist with foliage, green bark or non-woody surface roots of poplar trees.

Wiper Applicator

This product may be used through wick or other suitable applicators for control or partial control of grass and broadleaf weeds listed on the label.

For wick applicators, mix 2.75 quarts of this product with 2 gallons of water to make a 25 percent solution. For wiper systems that can handle thicker solutions, such as force fed systems, a solution containing 25 to 100 percent of this product may be used.

For best results, allow the herbicide solution to contact the maximum amount of leaf surface. As weed density increases, decrease equipment speed to allow sufficient herbicide to flow to wet all surfaces contacted. Weeds not contacted will be unaffected.

To avoid injury or death of desirable plants, prevent contact of herbicide with non-target vegetation, including foliage, green stems, exposed non-woody roots or fruit.

Railroads

All of the instructions in the Unimproved Rough Turf section applies to railroads.

Bareground, Ballast and Shoulders, Crossings, and Spot Treatment

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

See Tank Mixing section above for more information.

Note: If tank mixing with a product containing triclopyr amine, such as Garlon® 3A herbicide (EPA Reg. No. 62719-37) or Capstone (EPA Reg. No. 62719-572), ensure that the triclopyr amine product is well mixed with at least 75 percent of the total spray volume before adding this product to the spray tank to avoid incompatibility.

Brush Control

Use this product to control woody brush and trees on railroad rights-of-way. Apply 3 quarts to 2 gallons of this product per acre as a broadcast spray, using boom-type or boomless nozzles. Applications up to 80 gpa of spray solution may be used. Apply a 3/4 to 1.5 percent solution of this product when using high volume spray to wet applications. Apply a 4 to 7 percent solution of this product when using low volume directed sprays for spot treatment.

See Tank Mixing section above for more information.

Note: If tank mixing with Garlon® 3A herbicide (EPA Reg. No. 62719-37), ensure that Garlon 3A (EPA Reg. No. 62719-37) is well mixed with at least 75 percent of the total spray volume before adding this product to the spray tank to avoid incompatibility.

Note: If tank mixing with a product containing triclopyr amine, such as Garlon® 3A herbicide (EPA Reg. No. 62719-37) or Capstone (EPA Reg. No. 62719-572), ensure that the triclopyr amine product is well mixed with at least 75 percent of the total spray volume before adding this product to the spray tank to avoid incompatibility.

Pasture Management

Types of Applications: Preplant, preemergence, pasture renovation, spot treatment, wiper applicator, selective weed control in dormant pastures

Preplant, Preemergence, Pasture Renovation

Apply this product to control weeds prior to planting or prior to the emergence of forage grasses. This product may also be applied postemergence to any pasture grass (other than food crops in the *Gramineae* family), including bahiagrass, bermudagrass, bluegrass, brome, fescue, guineagrass, kikuyugrass, orchardgrass, pangola grass, ryegrass, timothy, and wheatgrass, to control these species prior to replanting.

Restrictions:

- If the application rate used is 2.25 quarts or less per acre, no waiting period is required between treatment and feeding or grazing livestock.
- If the application rate used is more than 2.25 quarts per acre, remove livestock before applying this product and wait 8 weeks after applying before resuming grazing or harvesting.

Spot Treatment and Wiper Applicator

To control tall weeds, apply this product in pastures as a spot treatment or over the top of desirable grasses using a wiper applicator. Repeat applications may be made in the same area every 30 days.

Restrictions:

- The entire pasture or any portion of it may be treated when using 2.25 quarts or less of this product per acre for spot treatments or wiper applications.
- No more than 10 percent of the total pasture may be treated at any one time when using more than 2.25 quarts of this product per acre for spot treatments or wiper applications.
- To achieve maximum performance, remove domestic livestock before application and wait 7 days after application before grazing livestock or harvesting for feed.

Selective Weed Control in Dormant Pastures

Apply this product to dormant pastures to suppress competitive growth and seed production of annual weeds and undesirable vegetation. Apply 9 to 12 fl oz of this product per acre by broadcast application equipment. Apply in early spring before desirable perennial grasses break dormancy and initiate green growth, or in late fall after desirable perennial grasses have reached dormancy.

Restrictions:

- If this product is applied when plants are not dormant, some stunting of perennial grasses will occur.
- Using a higher rate in the rate range could cause stand reduction.
- Do not apply more than a total of 2.25 quarts of this product per acre per year to pasture grasses except for renovation use.

There is no waiting period between application and grazing or harvesting.

Rangelands

Apply 2.5 lb ai per acre to control or suppress many annual weeds growing in perennial cool and warm season grass rangelands and pastures. Preventing weed seed production is critical to the successful control of annual grassy weeds invading these perennial grass sites. Eliminate most of the viable seeds with follow up applications in sequential years. Delay grazing of treated areas to encourage growth of desirable perennials. Allowing desirable perennials to flower and reseed in the treated area will encourage successful transition.

Bromus: Use this product to control or suppress downy brome (*Bromus tectorum*), Japanese brome (*Bromus japonicus*), soft chess (*Bromus mollis*), cheatgrass (*Bromus secalinus*), cereal rye and jointed goatgrass found in rangelands and pastures. Apply 6 to 12 fl oz of this product per acre as a broadcast treatment.

For best results, coincide treatments with early seedhead emergence of the most mature plants. Delaying the application until this growth stage maximizes the emergence of other weedy grass flushes. Make applications to the same site each year until seed banks are depleted and the desirable perennial grasses become established on the site.

Medusahead: Apply 12 fl oz of this product per acre to control or suppress medusahead at the 3-leaf stage when plants are actively growing. Delaying applications beyond this stage results in reduced or unacceptable control. Repeat applications in subsequent years to eliminate the seedbank before reestablishing desirable perennial grasses. Apply in the fall or spring.

Apply by ground or air. Make aerial applications for these uses with fixed wing or helicopter equipment. For aerial applications, apply in 2 to 10 gpa of water. For ground applications, apply in 10 to 20 gpa of water.

Spot Treatment Wiper Application

Apply this product in rangeland and pastures as a spot treatment or over the top of desirable grasses using wiper applicators to control tall weeds. Make repeat applications in the same area at 30-day intervals.

Restrictions:

- The entire site or any portion of it may be treated when using 2.25 quarts or less of this product per acre for spot treatments or wiper applications.
- No more than 10 percent of the total site may be treated at any one time when using more than 2.25 quarts of this product per acre for spot treatments or wiper applications.
- To achieve maximum performance, remove domestic livestock before application and wait 7 days after application before grazing livestock or harvesting for feed.

Weeds

Use a higher rate in the rate range when weed growth is heavy, dense, or growing in an undisturbed (non-cultivated) area. The performance of this product may be reduced when applying to weeds heavily covered with dust. If weeds have been mowed, grazed, or cut, allow regrowth to occur before applying this product.

If a handheld sprayer is used to apply this product on a spray to wet technique, ensure that the spray coverage is uniform and complete, and at least 50 percent of the foliage, or the top one-half of the plant, is sprayed. Spray both sides of large or tall weeds, thick or dense foliage, or multiple sprouts in order to ensure complete coverage.

After applying this product, if the soil must be tilled or the weeds mowed, wait 7 days before tilling, mowing, or removing residual vegetation to allow translocation of this product into underground plant parts.

Apply 1 to 1.75 gallons of this product per acre for enhanced results to control tough to control perennial weeds, woody brush and trees, plants growing under stressed conditions, or in areas of dense vegetation.

See Tank Mixing section above for more information.

Note: If tank mixing with a product containing triclopyr amine, such as Garlon® 3A herbicide (EPA Reg. No. 62719-37) or Capstone (EPA Reg. No. 62719-572), ensure that the triclopyr amine product is well mixed with at least 75 percent of the total spray volume before adding this product to the spray tank to avoid incompatibility.

Annual Weeds

Apply 1.5 pints of this product per acre if weeds are less than 6 inches in height or runner length. Use 1.25 to 3 quarts of this product per acre if weeds are more than 6 inches in height or runner length, or when weeds are growing under stressed conditions. Use a higher rate in the rate range for tough to control species regardless of the size of the weed at the time of application. Treat tough to control weeds early when they are relatively small.

Apply a 0.4 percent solution of this product as a spray to wet application to weeds less than 6 inches in height or runner length. Use a 0.7 to 1.5 percent solution for annual weeds more than 6 inches tall or for any weeds growing under stressed conditions. Use the higher concentration for tough to control species or for weeds more than 24 inches tall. Apply prior to seedhead formation in grass or bud formation in broadleaf weeds.

Use a 4 to 7 percent solution of this product for low volume directed spray applications.

Rate Table**Weed Species**

annoda, spurred
barley

little barley
London rocket

barnyardgrass	mayweed
bassia, fivehook	medusahead
bittercress	morningglory (<i>Ipomoea</i> spp.)
bluegrass, annual	mustard, blue
bluegrass, bulbous	mustard, tansy
brome, downy	mustard, tumble
brome, Japanese	mustard, wild
browntop panicum	nightshade, black
buttercup	oats
Carolina foxtail	pigweed
Carolina geranium	plains/tickseed coreopsis
castorbean	prickly lettuce
cheatgrass	puncturevine
cheeseweed (<i>Malva parviflora</i>)	purslane, common
chervil	ragweed, common
chickweed	ragweed, giant
cocklebur	red rice
copperleaf, hophornbeam	Russian thistle
corn	rye
corn speedwell	ryegrass
crabgrass	sandbur, field
dwarf dandelion	shattercane
eastern mannagrass	shepherd's-purse
eclipta	sicklepod
fall panicum	signalgrass, broadleaf
false dandelion	smartweed, ladythumb
falseflax, smallseed	smartweed, Pennsylvania
fiddleneck	sowthistle, annual
field pennycress	Spanish needles
filaree	speedwell, purslane
fleabane, annual	sprangletop
fleabane, hairy (<i>Conyza bonariensis</i>)	spurge, annual
fleabane, rough	spurge, prostrate
Florida pusley	spurge, spotted
foxtail	spurry, umbrella
goatgrass, jointed	stinkgrass
goosegrass	sunflower
grain sorghum (milo)	teaweed/prickly sida
groundsel, common	Texas panicum
hemp sesbania	velvetleaf
henbit	Virginia copperleaf
horseweed/marestail (<i>Conyza canadensis</i>)	Virginia pepperweed
itchgrass	wheat
johnsongrass (seedling)	wild oats
jungerice	witchgrass
knotweed	woolly cupgrass
kochia	yellow rocket
lambsquarters	

Perennial Weeds

Best results are obtained when perennial weeds are treated after they reach the reproductive stage of growth (seedhead initiation in grasses and bud formation in broadleaves). Best results are obtained when non-flowering plants are treated when they reach a mature stage of growth. In many situations, applications are required prior to these growth stages. Under these conditions, use a higher rate in the rate range.

When using spray to wet treatments with handheld equipment, ensure thorough coverage of the plant. For best results, use a 1.5 percent solution on harder to control perennials, such as bermudagrass, dock, field bindweed, hemp dogbane, milkweed and Canada thistle.

Use a 4 to 7 percent solution of this product in low volume directed spray applications.

Rate Table

Weed Species	Rate (pt/acre)	Handheld (% Solution)
alfalfa	1.5 - 3	1.5
partial control		
alligatorweed	6	1
partial control		
anise (fennel)	1.5 – 6.5	1 – 1.5
bahiagrass	4.5 - 7.5	1.5
beechgrass, European (<i>Ammophila arenaria</i>)	--	3.5
bentgrass	2.25	1.5
partial control		
bermudagrass	4.5 - 7.5	1.5
bermudagrass, water (knotgrass)	1.5	
bindweed, field	0.75 - 7.5	
bluegrass, Kentucky	3	
blueweed, Texas	4.5 - 7.5	
brackenfern	4.5 – 6	
bromegrass, smooth	1.5 – 3	1.5
bursage, woolly-leaf	--	
canarygrass, reed	3 - 4.5	
cattail	4.5 - 7.5	
clover, red, white		
cogongrass		
dallisgrass		
dandelion		
dock, curly		
dogbane, hemp	6	
fescue (except tall)	4.5 - 7.5	
fescue, tall	1.5 - 4.5	
German ivy	1.75 – 3.25	1 – 1.5
guineagrass	4.5	1
horsenettle	4.5 - 7.5	1.5
horseradish	6	
iceplant	1.75	1.5 – 2
Japanese knotweed	4.5	2
Jerusalem artichoke	4.5 - 7.5	1.5
johnsongrass	0.75 - 4.5	1
kikuyugrass	3 - 4.5	1.5
knapweed	6	
lantana	-	1
lespedeza	4.5 - 7.5	1.5
milkweed, common	4.5	
muhly, wirestem	1.5 – 3	
mullein, common	4.5 - 7.5	

Weed Species	Rate (pt/acre)	Handheld (% Solution)
napiersgrass		
nightshade, silverleaf	3	
nutsedge, purple, yellow	0.75 - 4.5	1 – 1.5
orchardgrass	1.5 – 3	1.5
oriental bittersweet	4.5	1.5
pampasgrass	4.5 – 7.5	1 - 1.5
paragrass	4.5 - 7.5	1.5
pepperweed, perennial	5.4	1.5
phragmites	4.5 - 7.5	1 – 1.5
partial control		
poison hemlock	1.5 – 5.4	1 – 1.5
quackgrass	1.5 - 4.5	1.5
redvine	1.25 – 3	
partial control		
reed, giant	6 – 7.5	1.5
ryegrass, perennial	1.5 - 4.5	1
smartweed, swamp	4.5 - 7.5	1.5
sowthistle, perennial	3 - 4.5	
spurge, leafy	--	
partial control		
starthistle, yellow	3	1.5
sweet potato, wild	--	
partial control		
thistle, artichoke	1.5 – 4.5	1 - 1.5
thistle, Canada	3 - 4.5	1.5
timothy	3 - 4.5	
torpedograss	6 - 7.5	
partial control		
trumpetcreeper	3	1.5
partial control		
vaseygrass	4.5 - 7.5	1.5
velvetgrass		
wheatgrass, western	3 - 4.5	1.5

**Tank Mixtures for Improved Control of Bentgrass (*Agrostis* spp.)
(Not for Use in California)**

For improved control of bentgrass (*Agrostis* spp.), the following products may be tank mixed with this product: Envoy 59639-132 (clethodim), Fusion 100-1059 (fenoxaprop-p-ethyl + fluazifop-p-butyl), Fusilade II 100-1084 (fluzaifop-P-butyl), or Vantage 228-619 (sethoxydim).. When tank mixing products, read and carefully observe label directions, precautionary statements and all information on the labels of each product in the mixture. Refer to each product label for the approved use sites.

Dry ammonium sulfate, at 1 to 2 percent by weight, may also be added to the spray solution. The equivalent rate of ammonium sulfate in a liquid formulation may also be used. Completely dissolve the ammonium sulfate in the spray tank before adding herbicides. Thoroughly rinse the spray system with clean water after use to reduce corrosion.

Broadcast Application: Apply 2 to 2.5 quarts of this product per acre plus

- 34 fl oz of Envoy per acre in 20 to 40 gpa of spray solution.
- 1.5 pints of Fusilade II per acre in 20 to 40 gpa of spray solution.
- 3.75 pints of Vantage per acre in 20 to 40 gpa of spray solution.
- 9 fl oz of Fusion per acre in 20 to 40 gpa of spray solution.

In the event of incomplete control, re-treatment may be necessary.

Spot Treatment: Mix 2 fl oz of this product with

- 1.3 fl oz of Envoy in 1 gallon of water and spray to wet.
- 0.75 fl oz of Fusilade II in 1 gallon of water and spray to wet.
- 3 fl oz of Vantage in 1 gallon of water and spray to wet.
- 0.25 fl oz of Fusion in 1 gallon of water and spray to wet.

Attention: Avoid drift. Use extreme care when applying this product to prevent injury to desirable plants and crops.

Woody Brush and Trees

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

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

Use a 1.5 percent solution when applying this product using a spray to wet technique with a handheld sprayer on harder to control woody brush and trees.

Apply a 4 to 7 percent solution of this product for low volume directed spray applications.

Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Reduced performance may result if fall treatments are made following a frost. Herbicidal symptoms might not appear prior to frost or senescence following a fall application.

Repeat treatments may be necessary to control plants regenerating from underground parts or seed.

See Tank Mixing section above for more information.

Note: If tank mixing with a product containing triclopyr amine, such as Garlon® 3A herbicide (EPA Reg. No. 62719-37) or Capstone (EPA Reg. No. 62719-572), ensure that the triclopyr amine product is well mixed with at least 75 percent of the total spray volume before adding this product to the spray tank to avoid incompatibility.

Rate Table

Weed Species	Rate (pt/acre)	Handheld Spray to Wet (% Solution)
alder	4.5 – 6	1
ash	3 - 7.5	1 – 1.5
partial control		
aspen, quaking	3 - 4.5	1
bearmat (bearclover)	3 - 7.5	1 – 1.5
beech		
partial control		
birch	3 – 4.5	1
blackberry	4.5 – 6	
blackgum	3 - 7.5	
bracken		

Weed Species	Rate (pt/acre)	Handheld Spray to Wet (% Solution)
broom, French, Scotch	1.75– 7.5	1 - 1.5
buckwheat, California	1.75 - 6	
partial control		
casacara	3 - 7.5	1 - 1.5
partial control		
catsclaw	--	1
partial control		
ceanothus	3 - 7.5	1 – 1.5
partial control		
chamise	1.75 – 7.5	1
partial control		
cherry, bitter, black, pin	3 - 4.5	1
coyote brush	4.5 - 6	1 - 1.5
deerweed	1.75 – 4.25	1
dogwood	3 - 7.5	1 – 1.5
partial control		
elderberry	3 - 4	1
elm	3 - 7.5	1 – 1.5
partial control		
eucalyptus	--	1.5
gorse	3 - 7.5	1 – 1.5
partial control		
hasardia	1.75 - 6	1 – 1.5
partial control		
hawthorn	3 - 4.5	1
hazel		
hickory	3 - 7.5	1 – 1.5
partial control		
honeysuckle	3 - 6	1
hornbeam, American	3 - 7.5	1 – 1.5
partial control		
kudzu	6 – 7.5	1.5
locust, black	3 - 6	1 – 1.5
partial control		
madrone resprouts	--	1.5
partial control		
manzanita	3 - 7.5	1 – 1.5
partial control		
maple, red	3 - 6	1
maple, sugar	--	
monkey flower	1.75 - 6	1 – 1.5
partial control		
oak, black, white	3 - 6	1 – 1.5
partial control		
oak, northern, pin	1.75 - 6	1
oak, post	4.5 - 6	
oak, scrub	1.75 - 6	
oak, southern red	3 - 4.5	1
peppertree, Brazilian (Florida holly)	3 - 7.5	1 – 1.5

Weed Species	Rate (pt/acre)	Handheld Spray to Wet (% Solution)
for suppression		
persimmon	3 - 7.5	1 – 1.5
partial control		
pine	3 - 7.5	1 – 1.5
poison ivy/poison oak	6 - 7.5	1.5
poplar, yellow	3 - 7.5	1 – 1.5
partial control		
redbud, eastern	3 - 7.5	1 – 1.5
rose, multiflora	3	1
Russian olive	3 - 7.5	1 – 1.5
partial control		
sage, black	1.75 - 6	1
sage, white	3 - 7.5	1 – 1.5
partial control		
sagebrush, California	3 - 6	1
salmonberry	3 – 4.5	
saltcedar	3 - 7.5	1 – 1.5
partial control		
sassafras	3 - 7.5	1 – 1.5
sourwood		
partial control		
sumac, laurel, poison, smooth, sugarbush, winged	3 - 6	1 – 1.5
partial control		
sweetgum	3 - 4.5	1
swordfern	3 - 7.5	1 – 1.5
partial control		
tallowtree, Chinese	--	1
tan oak resprouts		1.5
partial control		
thimbleberry	3 - 4	1
control		
tobacco, tree	1.75 - 6	1 – 1.5
partial control		
toyon	--	1.5
trumpet creeper	3 - 4.5	1 – 1.5
vine maple	3 - 7.5	
partial control		
Virginia creeper	3 - 7.5	1 – 1.5
waxmyrtle, southern		
partial control		
willow	4.5 - 6	1
yerba santa	--	1.5
partial control		

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[OPTIONAL MARKETING GRAPHICS]



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[LABEL HISTORY]
 [(Not included in final printed labeling)]

File Name	Version Mark	Comment
	04192023	Transfer from Corteva to Albaugh Date
083100-00076.20230512.DRAFT	05122023	Label amendment to include changes (amendment) submitted 6/03/21 and Albaugh Language
083100-00076.20240122.DRAFT	01222024	EPA Requested Label Changes