



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

September 5, 2025

Robert L. Hamilton
Senior Regulatory Manager
Valent U.S.A. LLC
4600 Norris Canyon Road
San Ramon, CA 94583

Subject: Notification per PRN 98-10 – Updating the pointer statement, warranty statement, Storage & Disposal section, and cover page.
Product Name: OUTRIDER HERBICIDE
EPA Registration Number: 59639-223
Application Date: 06/04/2025
Case Number: 659365

Dear Robert L. Hamilton:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “NOTIFICATION” and placed in our records.

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 the Federal Insecticide, Fungicide, and Rodenticide Act (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.

If you have any questions, please contact Laura Rademacher at Rademacher.Laura@epa.gov.

Sincerely,

Kable Bo Davis

Kable Bo Davis; Senior Advisor
Office of Pesticide Programs
Registration Division; Immediate Office



SULFOSULFURON	GROUP	2	HERBICIDE
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REDLINE COPY

[Bracketed bold italicized text is information for the reader and is not part of the label.]

[Bracketed Text is Optional]

Outrider® Herbicide

Outrider® Herbicide is a selective herbicide for the control of certain annual and perennial grasses and broadleaf weeds in select pasture grasses and rangelands, non-crop areas and in winter and spring wheat.

Active Ingredient	By Wt
Sulfosulfuron*	75.0%
Other THE INGREDIENTS NGREDIENTS	25.0%
Total	100.0%

*N-[(4,6-dimethoxypyrimidin-2-yl)carbamoyl]-2-(ethylsulfonyl)imidazo[1,2-a]pyridine-3-sulfonamide

Outrider Herbicide is a Water Dispersible Granulate containing 75% active ingredient.

KEEP OUT OF REACH OF CHILDREN

CAUTION

WATER DISPERSIBLE GRANULE

~~Outrider® Herbicide is a selective herbicide for the control of certain annual and perennial grasses and broadleaf weeds in select pasture grasses and rangelands, non-crop areas and in winter and spring wheat.~~

SEE [NEXT] [PAGE] [PANEL] [BOOKLET] FOR [ADDITIONAL PRECAUTIONARY STATEMENTS] [AND] [DIRECTIONS FOR USE]. ~~Complete Directions for Use Pamphlet~~

[Net Contents:]

[Est. No.]

EPA Reg. No. 59639-223

NOTIFICATION

59639-223

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

09/05/2025

Read the entire label before using this product.

Use only according to label instructions. Not all products referred to in this label are registered for use in California. Check the registration status of each product in California before using.

Read **RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND DISCLAIMER, AND LIMITATION OF LIABILITY** ~~LIMIT OF WARRANTY AND LIABILITY~~ statement before buying or using. If terms are not acceptable, return at once unopened.

THIS IS AN END-USE PRODUCT. VALENT DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULATION OR REPACKAGING.

Alternate language:

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

~~[Net Contents:]~~

~~[Est. No.]~~

[print plate no. and EPA approval date code]

INGREDIENTS

ACTIVE INGREDIENT:	By Wt
Sulfosulfuron*	75.0%
OTHER INGREDIENTS	25.0%
	100.0%

~~*N-[(4,6-dimethoxypyrimidin-2-yl)carbamoyl]-2-(ethylsulfonyl)imidazo[1,2-a]pyridine-3-sulfonamide~~

IMPORTANT PHONE NUMBERS

1. FOR PRODUCT INFORMATION OR ASSISTANCE IN USING THIS PRODUCT, CALL TOLL-FREE, 800-6-VALENT (682-5368)
2. IN CASE OF AN EMERGENCY INVOLVING THIS PRODUCT, OR FOR MEDICAL ASSISTANCE, CALL COLLECT, DAY OR NIGHT, 800-892-0099

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep out of reach of children

CAUTION!

CAUSES MODERATE EYE IRRITATION

Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

FIRST AID	
IF IN EYES	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.• Call a poison control center or physician for treatment advice.
<ul style="list-style-type: none">• Have the product container or label with you when calling a poison control center or physician, or going for treatment.• In case of emergency involving this product, call collect, day or night, 800-892-0099.• This product is identified as Outrider® Herbicide, EPA Reg. No. 59639-223.	

Personal Protective Equipment (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks, and chemical-resistant gloves made of any waterproof material, for example Barrier Laminate, Butyl Rubber ≥ 14 mils, Nitrile Rubber ≥ 14 mils, Neoprene Rubber ≥ 14 mils, Natural Rubber ≥ 14 mils, Poly-ethylene, Polyvinyl Chloride (PVC) ≥ 14 mils, and Viton ≥ 14 mils.

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

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

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards**GROUNDWATER LABEL ADVISORY**

This chemical has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

SURFACE WATER LABEL ADVISORY

This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of sulfosulfuron from runoff water and sediment. Runoff of this product will be greatly reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of Federal laws.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This product can only be used in accordance with the Directions for Use on this label or in separately published Supplemental Labeling. Supplemental labeling can be obtained by contacting your Authorized Valent Retailer or Valent Representative.

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

NON-TARGET ORGANISM ADVISORY STATEMENT

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated area. Protect the forage and habitat of non-target organisms by minimizing spray drift. For further guidance and instructions on how to minimize spray drift, refer to the Spray Drift Management section of this label.

WINDBLOWN SOIL PARTICLES

Outrider® Herbicide has the potential to move off-site due to wind erosion. Soils that are subject to wind erosion usually have a high silt and/or fine to very fine sand fractions and low organic matter content. Other factors which can affect the movement of windblown soil include the intensity and directions of prevailing winds, vegetative cover, site slope, rainfall, and drainage patterns. Avoid applying *Outrider*® Herbicide if prevailing local conditions may be expected to result in off-site movement.

Agricultural Use Requirements

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is coveralls, shoes plus socks, chemical-resistant gloves, such as nitrile rubber, neoprene rubber or polyethylene.

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 (40 CFR Part 170) for agricultural pesticides. 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

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

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

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

[Alternate language: See individual container label for pesticide disposal or handling information.]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple 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 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures incineration, or, if allowed by state and local authorities, by burning. If burned stay out of smoke.

[Optional language for larger container]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures incineration, or, if allowed by state and local authorities, by burning. If burned stay out of smoke.

[Optional language for nonrefillable fiber drums with liner]

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into mixing equipment. Then offer for recycling if available or dispose of in a sanitary landfill or by other procedures allowed by state and local authorities. If drum is contaminated and cannot be reused recycled, dispose of it in the manner required for its liner.

RECYCLING

Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact the Ag Container Recycling Council (ACRC) at 877-952-2272 (toll free) or www.acrecycle.org.

PRODUCT INFORMATION

Product Description: *Outrider*® Herbicide is a selective, systemic herbicide, formulated as a water dispersible granule (WDG) for control of many annual and perennial weeds in listed non-crop sites, pastures and rangeland, and for control of certain grasses and broadleaf weeds in winter and spring wheat.

Time to Symptoms: This product is absorbed through the roots and foliage of plants. Soon after application, growth of susceptible weeds is inhibited and in cropping situations susceptible weeds are no longer competitive with the crop. Following growth inhibition, affected plants may appear dark green and stunted, affected leaves will turn yellow and/or red, and the growing point of the plant may turn reddish-purple. These visible effects of control may not be observed for 1 to 3 weeks after application. Within 6 weeks after application the growing points die. Warm and moist conditions following application will accelerate herbicidal activity. Cool, dry conditions will delay herbicidal activity. Weeds stressed by drought are less susceptible to this product.

Rainfastness: Heavy rainfall soon after application (less than 2 hours) may wash this product off of the foliage and a repeat application may be required for adequate control.

Maximum Annual Use Rate for Non-crop, Pasture and Rangeland Uses (Refer to the Wheat Use section for maximum use rates for that use.): The combined total of all applications of this product must not exceed 2.66 ounces of product per acre per year.

Weed Resistance Management

For resistance management, *Outrider*[®] Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to *Outrider*[®] Herbicide and other Group 2 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 *Outrider*[®] Herbicide or other Group 2 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 before and 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 or to find out if suspected resistant weeds have been found in their region.
- For further information or to report lack of performance or suspected resistance, contact Valent U.S.A. LLC at 800-898-2536.

MIXING

Thoroughly clean mixing and application equipment prior to mixing spray solution.

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

Apply spray solutions within 24 hours after mixing.

Water Carrier

This product mixes readily with water. Mix spray solutions of this product as follows. Fill the spray tank with three-fourths of the desired final volume. Add the appropriate amount of this product to achieve the desired application rate as defined on this label (see the appropriate section of this label for application rates). Continue the filling process while maintaining agitation. When using a nonionic surfactant in non-crop uses or in postemergence applications in wheat, add the nonionic surfactant near the end of the filling process.

Surfactants and Adjuvants

A nonionic surfactant is required for all postemergence applications of this product and is the only adjuvant required to be added to the spray solution. For in-crop applications, use only nonionic surfactants that are approved by EPA for use on food crops. Use only nonionic surfactants that contain at least 90 percent [**optional**: 80 percent] active ingredient. Add nonionic surfactants to a concentration of 0.25 to 0.5 percent by volume (1 to 2 quarts per 100 gallons of spray solution), unless otherwise directed. **DO NOT USE NONIONIC SURFACTANTS OR OTHER ADDITIVES THAT ALTER THE pH OF THE SPRAY SOLUTION BELOW pH 5.**

Oil-based adjuvants or adjuvants containing oils are not recommended when this herbicide is tank-mixed with emulsifiable concentrate pesticide formulations.

Do not use low rates of liquid fertilizer as a substitute for surfactant.

pH Adjustment

Spray solutions of between pH 6.0 and 8.0 are required for optimal performance of this product. Failure to adjust the pH of the spray solution may result in reduced weed control. Follow the mixing procedure described on this label and adjust the pH of the spray solution after the addition of nonionic surfactant. To adjust the pH, add between 2 to 4 quarts (depending on the starting pH of your water carrier) of a 7-percent solution of ammonia for every 100 gallons of spray solution.

CAUTION: Do not use ammonia with chlorine bleach as your pH adjuster, as dangerous gases will form.

Tank Mixtures

Tank mixtures of this product with other herbicide products may be used to provide a broader spectrum of weed control and an alternate mode of herbicidal action. Tank-mix this product with other herbicides or materials that are listed in the specific use site sections of this label. Refer to each individual product label or supplemental labeling for all products in the tank mixture, and observe all instructions, precautions and limitations on the label, including application rates and restrictions related to soil texture, soil organic matter, wheat growth stage and crop rotation. Use the mixture according to the most restrictive precautionary statements for each product in the tank mixture.

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 listed on this label. Mixing this product with herbicides or other materials that are not listed on this label may result in reduced performance.

Tank mixtures with broadleaf herbicides formulated as amines (including 2,4-D and others) may decrease the effectiveness.

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

Always predetermine the compatibility of all tank-mix products together in the carrier by mixing small proportional quantities before mixing in the spray tank. When preparing tank mixtures, add individual components to the spray tank in the following sequence: water, water dispersible granules (this product), water-soluble bags, dry flowables, emulsifiable concentrates, drift control additives, water-soluble liquids, nonionic surfactants.

APPLICATION EQUIPMENT AND TECHNIQUES

This product may be applied using either ground or aerial (fixed-wing or helicopter) spray application equipment. Apply spray solutions of this product using properly maintained and calibrated equipment capable of delivering desired volumes. Use equipment that is capable of continuous and vigorous agitation. Use an agitation system capable of creating a rippling or rolling action on the liquid surface when the tank is full.

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

Do not allow this herbicide solution to mist, drift, or splash onto desirable vegetation or soil areas where sensitive crops will be planted, as minute quantities of this product can cause severe damage or destruction to susceptible plants on which treatment was not intended.

Aerial Application

All treatments described on this label may be made using aerial equipment where appropriate, except where specifically prohibited, provided that the applicator complies with the precautions and restrictions described in the **MANDATORY SPRAY DRIFT MANAGEMENT** section of this label. [*Optional text:* Do not apply by aerial application unless permitted by supplemental labeling.]

Injection Systems

This product may be used in ground applicator injection spray systems. It may be diluted prior to injecting into the spray stream. Do not mix this product with the undiluted concentrate of other products when using injections systems, unless specifically directed.

Equipment Cleaning

Thoroughly clean application equipment with a 1-percent solution of ammonia (one quart of ammonia for every 25 gallons of rinse water) promptly after using this product. Use a sufficient volume of cleaning solution to thoroughly rinse all surfaces and to flush all hoses. Rinse with water and repeat the cleaning procedure with the ammonia solution. Complete the cleaning procedure by rinsing thoroughly with clean water.

If visible residue is present in the spray tank, use a 1-percent solution of ammonia plus 0.25 percent nonionic surfactant (8 fluid ounces for every 25 gallons of rinse water) as the cleaning solution.

MANDATORY SPRAY DRIFT MANAGEMENT

SPRAY DRIFT

Aerial Applications

- Do not release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- For applications prior to the emergence of crops and target weeds, applicators are required to use a Coarse or coarser droplet size (ASABE S572.1).
- For all other applications, applicators are required to use a Medium or coarser droplet size (ASABE S572.1).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

Ground Boom Applications

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- For applications prior to the emergence of crops and target weeds, applicators are required to use a Coarse or coarser droplet size (ASABE S572.1).
- For all other applications, applicators are required to use a Medium or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

Boom-less Ground Applications

- Applicators are required to use a Medium or coarser droplet size (ASABE S572.1) for all applications.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

Boom-less Ground Applications

Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

Handheld Technology Applications

Take precautions to minimize spray drift.

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.

BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

- Volume – Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure – Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle – Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft

- Adjust Nozzles – Follow nozzle manufacturer's recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT – Ground Boom

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage.

For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT – Aircraft

Higher release heights increase the potential for spray drift. When applying aerially to crops, do not release spray at a height greater than 10 ft above the crop canopy, unless a greater application height is necessary for pilot safety.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed.

AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

NON-CROP, PASTURES AND RANGELAND

Use Sites:

Non-crop Use Sites: Use this product for weed control on non-crop sites including airports, conservation areas, ditch banks, dry ditches, dry canals, fallow areas, fencerows, industrial sites, lumberyards, manufacturing sites, natural areas, petroleum tank farms and pumping installations, railroads, roadsides, storage areas, utility rights-of-way, utility sites and substations, warehouse areas and wildlife areas.

Pasture and Rangeland Use Sites: Use this product for weed control in pastures, hayfields and rangelands as defined in this label. It can be used for weed control in perennial native grasses as defined on the label.

Do not use this product on or around athletic fields, commercial turf sites, golf courses, residential turf sites or sod and turfgrass seed farms.

IMPORTANT: Do not allow this product to contact roots or foliage of desirable vegetation, areas where roots of desirable vegetation may extend, or areas where this product may be washed or moved into contact with roots of desirable vegetation. Desirable plants may be injured if planted into treated areas.

Application Equipment and Techniques

Best results are obtained when weeds are actively growing and not disturbed by mowing for at least 14 days before and 14 days after application.

Ground Broadcast Application

Apply this product uniformly with properly calibrated ground application equipment at rates specified on this label in 10 to 50 gallons of water per acre. Select spray volumes that ensure thorough and uniform weed coverage. Spray booms should be equipped with nozzles that provide optimum spray distribution and uniform coverage at the appropriate spray pressure to minimize streaking, skips, overlaps and spray drift during application.

Aerial Application

Apply this product at rates specified on this label in 5 to 15 gallons of water per acre when making aerial applications, unless otherwise specified.

Hand-Held and High-Volume Application

Hand-held spray guns, backpack sprayers and other similar types of sprayers may be used to apply this product. Follow the use directions for hand-held and high-volume application in the specific use sections of this label. Apply to foliage of vegetation to be controlled at a rate of approximately 2 gallons of spray solution per 1000 square feet. Spray coverage should be uniform and complete. Do not spray to the point of runoff. Use coarse sprays only.

Bermudagrass and Bahiagrass Non-crop Sites

Use this product to control or partially control many annual and perennial weeds for effective release of bermudagrass and bahiagrass on roadsides and other non-crop sites listed in this section of this label.

Ground Broadcast Application

Apply at 0.75 to 2 ounces of product (0.5625 to 1.5 ounces of active ingredient) per acre in a spray solution containing a nonionic surfactant at a concentration of 0.25 percent by volume. Use the higher application rate of this product within the range for control of large established weeds or when weed growth is heavy or dense. Follow-up applications can be made after suitable re-growth of weeds but no sooner than 30 days after the previous application. Do not apply more than 2.66 ounces of product (2.0 ounces of active ingredient) per acre per year. Do not make more than 3 applications per year.

Hand-Held and High-Volume Application

With hand-held and high-volume spray equipment, apply a spray solution consisting of 1 ounce of this product (0.75 ounce active ingredient) plus 1 quart of a nonionic surfactant (0.25 percent) per 100 gallons of spray solution.

Tank Mixtures

ESTABLISHED STANDS OF BERMUDAGRASS AND BAHIAGRASS ARE TOLERANT TO THIS PRODUCT AT RATES SPECIFIED ON THIS LABEL; HOWEVER, TANK MIXTURES OF THIS PRODUCT WITH OTHER HERBICIDES MAY INCREASE GRASS INJURY. USE THESE TANK MIXTURES ONLY WHEN SOME TEMPORARY INJURY OR DISCOLORATION OF THE BERMUDAGRASS AND BAHIAGRASS CAN BE TOLERATED.

Tank mixtures of this product with other herbicides may be used to increase the spectrum of weed control in bermudagrass and bahiagrass.

This product may be applied at a rate of 0.75 to 2 ounces (0.5625 to 1.5 ounces of active ingredient) per acre in a tank-mix with the following products:

[Insert active ingredient(s) or brand name of product(s) containing the following active ingredients that, at the time of printing, are registered for weed control in these bermudagrass and bahiagrass sites: 2,4-D, chlorsulfuron, clopyralid, dicamba, diuron, glyphosate, imazapic, metsulfuron methyl, MSMA, sulfometuron methyl, triclopyr

Campaign, Escort, Escort XP, Garlon 3A, Garlon 4, MSMA, Oust, Oust XP, Plateau, Roundup PROMAX, Roundup PRO Concentrate, Telar DF, Transline, Vanquish]

Refer to the label of each individual product included in the tank mixture for application rates and use instructions for weed control on bermudagrass and bahiagrass turf sites.

A surfactant does not need to be added to the spray solution when this product is tank-mixed with Campaign, Roundup PROMAX, or Roundup PRO Concentrate herbicides.

Release of Dormant Bermudagrass or Bahiagrass

This product may be tank-mixed with Campaign, Roundup PROMAX, or Roundup PRO Concentrate herbicides to control or partially control many winter annual weeds in dormant bermudagrass and bahiagrass prior to spring green-up.

In dormant bermudagrass or bahiagrass, apply 0.75 to 2 ounces of this product (0.5625 to 1.5 ounces of active ingredient) per acre, alone or in a tank mixture with one of the following herbicide products at an application rate within the range indicated.

Tank-Mix Product	Application Rate
Campaign	16 to 64 fluid ounces per acre
Roundup PROMAX	5 to 44 fluid ounces per acre
Roundup PRO Concentrate	6.4 to 51 fluid ounces per acre

In dormant bermudagrass only, up to 1 ounce per acre of Escort may be applied along with 0.75 to 2 ounces of this product (0.5625 to 1.5 ounces active ingredient) per acre, alone or in a three-way tank mixture with Roundup PROMAX or Roundup PRO Concentrate herbicides at the rates indicated in the previous table, to increase the spectrum of broadleaf weeds controlled. Addition of Escort may delay green-up of bermudagrass in the spring. **TANK MIXTURES OF THIS PRODUCT WITH ESCORT IN HIGHLY MAINTAINED TURFGRASS AREAS WILL RESULT IN UNACCEPTABLE TURF INJURY.**

In the state of Texas, applications of this product applied before September 30 will not delay green-up of bermudagrass the following spring; however some temporary discoloration of desirable spring germinating wildflowers may occur.

Release of Actively Growing Bermudagrass

This product may be tank-mixed with Roundup PROMAX or Roundup PRO Concentrate herbicides to control or partially control johnsongrass and other weeds in bermudagrass when it is actively growing. Use only on well-established stands of bermudagrass. Apply 0.75 to 2 ounces of this product (0.5625 to 1.5 ounces of active ingredient) per acre, alone or in a tank mixture with one of the following herbicide products within the range of application rates indicated. Use the higher application rate within the range to control perennial weeds or annual weeds greater than 6 inches in height.

Tank-Mix Product	Application Rate
Roundup PROMAX	5 to 22 fluid ounces per acre
Roundup PRO Concentrate	6.4 to 26 fluid ounces per acre

The following herbicide products can also be applied at the application rates indicated in a tank mixture with 0.75 to 2 ounces of this product (0.5625 to 1.5 ounces of active ingredient) per acre, alone or in a three-way tank mixture with Roundup PROMAX or Roundup PRO Concentrate herbicides at the application rates indicated in the previous table.

Tank-Mix Product	Application Rate
Escort	1 ounce per acre
Oust	0.5 ounce per acre
Telar	0.5 ounce per acre

DO NOT apply this product in tank mixtures with Escort, Oust, or Telar in highly maintained turfgrass areas.

Release of Actively Growing Bahiagrass

This product may be tank-mixed with Roundup PROMAX or Roundup PRO Concentrate herbicides to control or partially control johnsongrass and other weeds in bahiagrass while it is actively growing. Use only on well-established stands of bahiagrass. Apply 0.75 to 2 ounces of this product (0.5625 to 1.5 ounces of active ingredient) per acre, alone or in a tank mixture with one of the following herbicide products at the application rate indicated.

Tank-Mix Product	Application Rate
Roundup PROMAX	4 fluid ounces per acre
Roundup PRO Concentrate	5 fluid ounces per acre

Tall Fescue Non-crop Sites

This product may be used to control or partially control johnsongrass and other weeds listed in the **WEEDS CONTROLLED** section of this label in tall fescue on roadsides and other non-crop sites listed on this label.

Use this product only on well-established stands of tall fescue. Even at rates listed in this section, use of this product may result in temporary chlorosis and discoloration, and may result in transient growth reduction of the desirable turf. These symptoms generally appear 7 to 10 days after application and are typically gone within 21 to 28 days.

Ground Broadcast Application

Apply this product at 0.75 to 1 ounce per acre (0.5625 to 0.75 ounces of active ingredient per acre) in a spray solution containing a nonionic surfactant at a concentration of 0.25 percent by volume. Do not exceed 1 ounce of this product per acre per year. Use the higher application rate of this product within the range for control of large established weeds or when weed growth is heavy or dense.

Hand-Held and High-Volume Application

With hand-held and high-volume spray equipment, apply a spray solution consisting of 1 ounce of this product (0.75 ounce of active ingredient) plus 1 quart of a nonionic surfactant (0.25 percent) per 100 gallons of spray solution.

Tank Mixtures

Tank mixtures of this product may be used to increase the spectrum of vegetation controlled in tall fescue. This product may be applied at 0.75 to 1 ounce per acre (0.5625 to 0.75 ounce of active ingredient per acre) in a tank-mix with the following products.

[Insert active ingredient(s) or brand name of product(s) containing the following active ingredients that, at the time of printing, are registered for weed control in these tall fescue sites: 2,4-D, clopyralid, dicamba, metsulfuron methyl, MSMA, triclopyr

Escort, Escort XP, Garlon 3A, Garlon 4, MSMA, Transline]

Refer to the label of each individual product included in the tank mixture for application rates and use instructions for weed control on tall fescue sites.

Bermudagrass and Bahiagrass Pasture Sites

This product may be used in early spring through the fall to control or partially control the weeds listed in the **WEEDS CONTROLLED** section of this label in well-established bermudagrass and bahiagrass pastures.

Grass forage may be grazed immediately after application. However, for best weed control, do not mow or harvest the pasture to be treated for 2 weeks before or 2 weeks after application. For best control of johnsongrass, make application when the johnsongrass is actively growing, is at least 18 to 24 inches tall and up to the heading stage.

For control of large established weeds or when weed growth is particularly heavy or dense, a single application of up to 2 ounces of this product can be made.

Ground Broadcast Application

Apply 1.33 ounces of this product per acre (1 ounce of active ingredient) per acre along with a nonionic surfactant at a concentration of 0.25 percent by volume (1 quart per 100 gallons of spray solution) in 10-50 gallons of spray solution per acre. A follow-up application can be made after suitable regrowth of weeds but no sooner than 40 days after the previous application. Do not apply more than 2.66 ounces of product (2.0 ounces of active ingredient) per acre per year. Do not make more than 2 applications per year.

Hand-Held and High-Volume Application

With hand-held and high-volume spray equipment, apply a spray solution consisting of 1.33 ounces of this product (1 ounce of active ingredient per acre) plus 1 quart of a nonionic surfactant (0.25 percent) per 100 gallons of spray solution. A follow-up application can be made after suitable regrowth of weeds but no sooner than 40 days after the previous application.

Pasture and Rangeland Sites in States West of the Mississippi River

This product may be used in pasture and rangeland grasses in States west of the Mississippi River in the fall or spring to provide selective post-emergent control or partial control of the weeds specified in the **WEEDS CONTROLLED** section of this label.

This product is selective in crested wheatgrass and selectivity in other pasture grasses is increased when they are not actively growing. Temporary stunting or chlorosis of grasses may occur but desirable grasses will recover. If concern exists about selectivity on desirable grasses, a small area should be treated to confirm selectivity.

Grass forage may be grazed immediately after application. However, for best weed control do not mow or graze the pasture or rangeland for 2 weeks before or after application.

Ground Broadcast and Aerial Application

Apply 0.75 to 1.33 ounces of this product (0.5625 to 1 ounce of active ingredient) per acre along with a nonionic surfactant. Use the higher rate when weeds are in advanced growth stage. The level of weed control following application is dependent on weed species and weed stage of growth at application. For best results, weeds should be actively growing and in an early vegetative stage.

Refer to the **SPRAY DRIFT MANAGEMENT** section of this label for guidelines regarding spray drift management.

Dormant Pastures and Rangelands

Apply 0.75 to 1.33 ounces of this product (0.5625 to 1 ounce of active ingredient) per acre in a tank mix with Roundup PRO Concentrate at 10 to 13 fluid ounces per acre or Roundup PROMAX at 8 to 11 fluid ounces per acre for control of weeds in dormant pastures. Tank mixing this product with Roundup PROMAX herbicide at rates below 12 ounces per acre requires the addition of a nonionic surfactant to the spray solution at a concentration of 0.25 percent by volume (1 quart per 100 gallons of spray solution). Make these applications when the desirable pasture grass species are dormant and a new flush of the target weeds is emerged and actively growing.

Native Grasses and Conservation Reserve Program (CRP) Sites

This product may be used to selectively control the weeds listed in the **WEEDS CONTROLLED** section of this label in perennial native grassland areas, including land enrolled in the Federal Conservation Reserve Program (CRP). This product may be applied to the following native perennial grasses:

- big bluestem
- blue oats grama
- Indiangrass
- little bluestem
- side oats grama
- lovegrass
- bushy bluestem
- buffalograss
- switchgrass

For selective weed control in the native grasses listed in this section, apply 1.33 to 2 ounces of this product (1 to 1.5 ounces of active ingredient) per acre per application. Use the higher application rate of 2.0 ounces per acre of this product for control of large established weeds, or when weed growth is heavy or dense. Do not apply more than 2.66 ounces of product (2 ounces of active ingredient) per acre per year. Do not make more than 2 applications per year.

Addition of a nonionic surfactant to the spray solution at a concentration of 0.25 percent by volume (1 quart per 100 gallons of spray solution) is required for this application. Sequential applications of this product may be made at a minimum of 30 days between applications, up to a maximum use rate of 2.66 ounces of product per acre per year. Do not apply this product to newly seeded perennial native grasses prior to the 3-leaf growth stage. Native grasses listed in this section may be reseeded into treated areas, but no sooner than 14 days after treatment.

Crop Rotation Restrictions

No crop, except wheat, may be planted into pasturelands, rangelands, or land taken out of the CRP that has been treated with this product within 12 months after application. For all crops, except wheat, a successful field bioassay, as described in this section, must be completed before planting.

Do not seed any crop, except wheat, any sooner than 3 months after the last application of this product. There are no crop rotation restrictions for wheat.

Field Bioassay

To conduct an effective field bioassay, plant strips of the crop you plan to grow the following season in the fields previously treated with this product. Crop response to the bioassay will determine if the crop(s) planted in the test strips can be safely grown in the previously treated fields.

Non-crop Tree Sites

This product may be applied as a broadcast application around or over the top of select hardwood and conifer tree species in conservation and wildlife areas to control johnsongrass, tall fescue, purple and yellow nutsedge, and other weed species listed in the **WEEDS CONTROLLED** section of this label.

This product has been shown to provide selective control on the following tree species:

- American Plum
- Bald Cypress
- Bur Oak
- Cottonwood
- Green Ash
- Pecan
- Pin Oak
- Swamp White Oak
- Sycamore
- Walnut

Treated trees must be growing in areas where commercial fruit or nut harvest will not occur. Make over-the-top applications to non-bearing trees only. Treat over the top of transplanted trees after they are well established. Temporary yellowing and growth reduction may occur in some species.

Do not apply by air.

Apply up to 1.33 ounces of this product (1 ounce of active ingredient) per acre with a nonionic surfactant concentration of 0.25 percent (1 quart per 100 gallons of spray solution). Sequential applications of this product can be made at a minimum of 21 days between applications, up to a maximum use rate of 2.66 ounces of product (2 ounces of active ingredient) per acre per year. Do not make more than 2 applications per year.

Selective Herbaceous Weed Control in Forestry Conifer Release

This product provides control or partial control of herbaceous weeds in a forestry conifer release program using a spring or early summer application after planting loblolly, slash or longleaf pine, and in fallow silvicultural nursery sites for these species. Best results are obtained when Accord® SP herbicide or a labeled tank-mix with Accord SP herbicide has been used for site preparation prior to planting.

Ground Broadcast Application

Apply *Outrider*® Herbicide at 0.75 to 2 ounces per acre (0.5625 to 1.5 ounces of active ingredient per acre). Do not exceed 2 ounces of this product (1.5 ounces of active ingredient) per acre per year. Do not make more than 2 application per year.

Use the higher application rate of this product within the range or in one of the tank mixtures described on this labeling for control of large established weeds or when weed growth is heavy or dense. Best results are obtained when weeds are in the early stage of growth. Addition of a nonionic surfactant at a concentration of 0.25 percent by volume (1 quart per 100 gallons of spray solution) is required for postemergence application of this product. Use only nonionic surfactants that contain at least 90 percent active ingredient.

Hand-Held and High-Volume Application

Apply a spray solution consisting of 1 to 2 ounces of *Outrider*® Herbicide (0.75 to 1.5 ounces of active ingredient) plus 1 quart of a nonionic surfactant per 100 gallons of water. Use only nonionic surfactants that contain at least 90 percent active ingredient.

Aerial Application

DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT EXCEPT UNDER CONDITIONS AS SPECIFIED WITHIN THIS LABEL.

Aerial application of this product is by helicopter only. Apply the specified rate of this product in 5 to 30 gallons of water per acre. Use the higher spray volumes where weeds are dense or form multiple canopy layers.

When used according to label directions, this product will give control or partial control of herbaceous weeds listed in the **WEEDS CONTROLLED** section of this label.

Follow instructions in the **Mandatory Spray Drift Management** section of this label to manage off-target drift movement from aerial application to agricultural field crops.

Apply *Outrider*® Herbicide at 0.75 to 2 ounces of product (0.5625 to 1.5 ounces of active ingredient) per acre. Do not exceed 2 ounces of this product (1.5 ounces active ingredient) per acre per year.

Use the higher application rate of this product within the range or in one of the tank mixtures described on this labeling for control of large established weeds or when weed growth is heavy or dense. Best results are obtained when weeds are in the early stage of growth.

Addition of a nonionic surfactant at a concentration of 0.25 percent by volume (1 quart per 100 gallons of spray solution) is required for postemergence application of this product. Use only nonionic surfactant that contains at least 90 percent active ingredient.

Tank Mixtures

Tank mixtures of this product may be used to increase the spectrum of herbaceous vegetation controlled in a conifer release program. When tank-mixing, read and carefully observe the label directions, precautionary statements and all information on the labels of all products used. Use according to the most restrictive precautionary statements for each product in the mixture.

Ensure that the tank-mix product is approved for use prior to planting the desired species. Observe planting interval restrictions.

Any labeled rate of this product may be used in a tank-mix with the following products for forestry use.

PRODUCT	APPLICATION RATE
Arsenal Applicators Concentrate*	4 fl oz/A
Arsenal Applicators Concentrate* + Oust or Oust XP	4 fl oz/A + 1 oz/A
Oust or Oust XP	1-2 oz/A
Oust or Oust XP + Velpar	1-2 oz/A + 0.375-.05 lb/A
Oustar	8-12 oz/A
Velpar	0.375-0.75 lb/A

* Use of surfactant not recommended with these products for slash and longleaf pine.

Any of these mixtures can be used as a broadcast spray or in a banded application around trees to reduce potential for soil erosion.

Weeds Controlled

Barley, volunteer

Hordeum vulgare

Bedstraw, catchweed

Galium aparine

Bentgrass, creeping

Agrostis stolonifera

Bluegrass, bulbous

Poa bulbosa

Bluegrass, roughstalk

Poa trivialis

Brome, downy

Bromus tectorum

Brome, ripgut

Bromus rigidus

Buttercup

Ranunculus arvensis

Chamomile, mayweed

Anthemis cotula

Cheat

Bromus secalinus

Chess, hairy

Bromus commutatus

Chickweed, common

Stellaria media

Cocklebur, common

Xanthium strumarium

Fiddleneck, tarweed

Amsinckia lycopoides

Flixweed

Descurainia sophia

Horseweed

Conyza canadensis

Johnsongrass

Sorghum halepense

Mustard, tumble

Sisymbrium altissimum

Mustard, wild

Sinapis arvensis

Nutsedge, purple

Cyperus rotundus

Nutsedge, yellow

Cyperus esculentus

Pennycress, field

Thlaspi arvense

Quackgrass

Elytrigia repens

Shepherd's-purse

Capsella bursa-pastoris

Sunflower, common

Helianthus annuus

Tansymustard, pinnate

Descurainia pinnata

Weed Control in Warm-Season Forage Grass Hayfield and Pasture Sites

Use this product in early spring through the fall to control or partially control the weeds listed in the WEEDS CONTROLLED section of the *Outrider*® Herbicide label in well-established bermudagrass, bahiagrass, star bermudagrass and limpograss hayfields and pastures.

Grass forage may be grazed immediately after application. However, for best weed control, do not mow or harvest the hayfield or pasture to be treated for 2 weeks before or 2 weeks after application. For best control of johnsongrass, make application when the johnsongrass is actively growing, is at least 18 to 24 inches tall and up to the heading stage. Sedges should be actively growing with sufficient leaf area developed to intercept the herbicide.

Ground Broadcast Application

Apply 1.33 ounces of this product (1 ounce of active ingredient) per acre along with a nonionic surfactant at a concentration of 0.25 percent by volume (1 quart per 100 gallons of spray solution) in 10 to 50 gallons of spray solution per acre. A follow-up application can be made after suitable regrowth of weeds but no sooner than 40 days after the previous application.

For control of large established weeds or when weed growth is particularly heavy or dense, a single application of up to 2 ounces of this product (1 ounce of active ingredient) per acre can be made.

Hand-Held and High-Volume Application

With hand-held and high-volume spray equipment, apply a spray solution consisting of 1.33 ounces of this product (1 ounce of active ingredient) per acre plus 1 quart of a nonionic surfactant (0.25 percent) per 100 gallons of spray solution. A follow-up application can be made after suitable regrowth of weeds but no sooner than 40 days after the previous application.

Weed Control in Newly Sprigged Warm-Season Forage Grass Hayfield and Pasture Sites

This product can be used in newly sprigged bermudagrass, star bermudagrass and limpograss hayfields and pastures 4 weeks or more after emergence of the sprigged grass to control weeds listed in the WEEDS CONTROLLED section of the *Outrider*® Herbicide label.

Grass forage may be grazed immediately after application. However, for best weed control, do not mow or harvest the hayfield or pasture to be treated for 2 weeks before or 2 weeks after application. For best control of johnsongrass and sedges, these weeds should be actively growing with sufficient leaf area developed to intercept the herbicide.

Ground Broadcast Application

Apply 1.33 ounces of this product (1 ounce of active ingredient) per acre along with a nonionic surfactant at a concentration of 0.25 percent by volume (1 quart per 100 gallons of spray solution) in 10 to 50 gallons of spray solution per acre. A follow-up application can be made after suitable regrowth of weeds but no sooner than 4 weeks after the previous application.

WINTER WHEAT AND SPRING WHEAT

Not for use on wheat in California. [Optional text: Not for use on wheat in Alaska, Arizona, Florida, Hawaii, Massachusetts, New York and Puerto Rico.]

Use sites: Winter wheat and spring wheat

Preharvest Interval: Wheat forage may be grazed immediately after application of this product. Do not harvest wheat for hay within 30 days of *Outrider*® Herbicide application. Do not harvest wheat for grain within 55 days of application of this product.

Application Equipment and Techniques

Select spray volumes that ensure thorough and uniform weed coverage. Use nozzles that provide optimum spray distribution and coverage at the appropriate spray pressure. Thorough coverage is necessary to provide good weed control without streaking, skips, overlaps, and spray drift during application.

Valent U.S.A. LLC will not be liable for rotational crop injury resulting from spray overlaps.

Ground Broadcast Application

Apply this product uniformly as a broadcast spray with properly calibrated ground equipment in 5 to 20 gallons of water per acre, or in 10 to 40 gallons of liquid fertilizer solution per acre.

Aerial Application

Apply with aerial equipment in 5 to 15 gallons of water per acre.

Applications in Fluid Fertilizer Carrier

APPLICATION OF THIS HERBICIDE IN LIQUID FERTILIZER SOLUTIONS MAY RESULT IN LEAF BURN AND REDUCED FORAGE GROWTH.

This herbicide provides most consistent performance when applied with water as the spray carrier and surfactant is added to the spray solution. Liquid nitrogen fertilizer solutions (28-0-0 or 32-0-0) may, however, be used as a spray carrier in place of all or part of the water when the label directions are followed.

DO NOT USE IN FERTILIZER SOLUTIONS OF pH 5 OR LESS.

Fall applications of this herbicide in liquid fertilizer solutions may cause rapid leaf burn, resulting in reduced weed control and reduced forage growth.

Fertilizer solutions should contain less than 50 percent liquid nitrogen and not exceed 30 pounds of actual nitrogen per acre.

Nonionic surfactants should be added at 0.25 percent by volume (1 quart per 100 gallons of spray solution) to spray solutions containing fluid fertilizer.

Tank mixtures with Insecticides

This product may be tank-mixed or used sequentially with insecticides labeled for use in wheat, except Malathion. DO NOT USE THIS PRODUCT PLUS MALATHION, AS CROP INJURY MAY RESULT.

Do not use tank mixtures of this product plus insecticides when the wheat crop has significant insect damage, is under drought stress, or when growth is negatively influenced by other environmental stresses, such as nutrient deficiency, poor soil pH, or disease.

Do not apply this product within 60 days of crop emergence where an organophosphate insecticide has been applied as an in-furrow treatment, as crop injury may result.

Winter Wheat

When applied to winter wheat as directed in this section, the following weeds are either controlled or suppressed by this product as indicated for either preemergence application, postemergence application in the fall, or postemergence application in the spring.

WEED SPECIES	PRE	FALL POST	SPRING POST
Barley, volunteer <i>Hordeum vulgare</i>	C	C	S
Bedstraw, catchweed <i>Galium aparine</i>	S	C	C
Bluegrass, bulbous <i>Poa bulbosa</i>	•	•	C
Bluegrass, roughstalk <i>Poa tirvialis</i>	•	C	•
Brome, downy <i>Bromus tectorum</i>	C	C	S
Brome, Japanese <i>Bromus japonicus</i>	C	C	S
Brome, ripgut <i>Bromus rigidus</i>	•	S	S
Chamomile, mayweed <i>Anthemis cotula</i>	•	C	C
Cheat <i>Bromus secalinus</i>	C	C	S
Chess, hairy <i>Bromus commutatus</i>	C	C	S
Chickweed, common <i>Stellaria media</i>	•	S	C
Fiddleneck, tarweed <i>Amsinckia lycopsoides</i>	•	S	S
Flixweed <i>Descurainia Sophia</i>	S	S	S
Henbit <i>Lamium amplexicaule</i>	S	S	•
Lady's-thumb <i>Polygonum persicaria</i>	•	•	S
Mustard, tumble <i>Sisymbrium altissimum</i>	S	C	C
Mustard, wild <i>Sinapis arvensis</i>	C	C	C
Oat, wild (fall germinating) <i>Avena fatua</i>	•	S	S
Oat, wild (spring germinating) <i>Avena fatua</i>	•	•	S
Pennycress, field <i>Thlaspi arvense</i>	S	S	S
Quackgrass <i>Elytrigia repens</i>	•	•	C
Rescuegrass <i>Bromus catharticus</i>	•	S	S
Ryegrass, Italian <i>Lolium multiflorum</i>	•	S	S**
Shepherd's-purse <i>Capsella bursa-pastoris</i>	•	•	C
Tansymustard, pinnate <i>Descurainia pinnata</i>	S	S	S
Wallflower, bushy <i>Erysimum repandum</i>	•	C	C

** Spring application will provide suppression only in WA, ID, OR.

C = Control S = Suppression • = Not Control or Suppressed

This product can be applied in winter wheat either as a single preemergence application, a single postemergence application, or as a split postemergence application to control or suppress the weeds listed in this section. Best weed control is obtained when soil moisture is adequate to support vigorous wheat and weed growth.

Choose one of the following application scenarios.

Preemergence in Winter Wheat

Apply *Outrider*® Herbicide preemergence to winter wheat at 2/3 ounce of product (0.5 ounce of active ingredient) per acre in a single application. Preemergence applications of *Outrider*® Herbicide should be applied after drilling wheat but before wheat or weed emergence. Do not use preemergence application if dry soil conditions will cause delayed wheat and/or weed emergence. Preemergence applications under dry soil conditions can:

- 1.) Increase the risk of wheat injury due to slow and inconsistent winter wheat germination and growth prior to winter dormancy. (If winter wheat does not reach the 3-leaf stage prior to winter dormancy, a negative crop response the following spring can be expected.)
- 2.) Result in poor weed control performance.
- 3.) Make this product vulnerable to wind erosion until fall moisture is received.

Under these conditions wait until crop and weeds have emerged and are showing good vigor, and then follow directions for postemergence application.

Do not use preemergence applications for no-till systems or when high crop residue levels (plant material) are present on the soil surface.

Postemergence in Winter Wheat—Single Application

Apply this product at 2/3 ounce of product (0.5 ounce of active ingredient) per acre in a single application when the target weeds listed in this section are actively growing. Use a nonionic surfactant at a concentration of 0.5 percent by volume (2 quarts per 100 gallons of spray solution) with this postemergence application.

In the states of KS, OK, TX and MT, the single postemergence application can be made after the wheat is in the 2-leaf stage, but prior to the jointing stage (Feekes' Scale 6). In all other states, postemergence application can be made after the wheat emerges, but prior to the jointing stage (Feekes' Scale 6).

Brome (Cheat, Downy Brome, Japanese Brome)

For best control of brome species, apply this product as a single postemergence fall application of 2/3 ounce of product (0.5 ounce of active ingredient) per acre when brome is in the 2- to 3-leaf stage of growth. Best performance with fall applications of this product *Outrider*® Herbicide will occur with good soil moisture and/or rainfall soon after application.

For spring postemergence suppression of brome species, apply a single application of 2/3 ounce of this product (0.5 ounce of active ingredient) per acre when brome has recovered from cold weather (majority of foliage is green and not red or purple) and is actively growing. For best control, apply when brome is less than the 5-tiller stage of growth.

Mustards and other winter annual broadleaf weeds

For fall postemergence control of mustards and other winter annual broadleaf weeds, apply 2/3 ounce of this product (0.5 ounce of active ingredient) per acre in a single application. For best control, apply when weeds are less than 2 inches in diameter. Best performance with fall application of this product will occur with good soil moisture and/or rainfall soon after application.

For spring postemergence control of winter annual broadleaf weeds, apply 2/3 ounce of this product (0.5 ounce of active ingredient) per acre. For best control, make application when weeds are less than 2 inches in diameter. Use tank mixtures with broadleaf herbicides when winter annual broadleaf weeds are greater than 2 inches in diameter.

Postemergence in Winter Wheat—Split Application

[Optional Statement: For use only in the following states: Idaho, Montana, Oregon, Washington, and Wyoming]

As an alternative to a single postemergence application, this product *Outrider*® Herbicide may be applied to winter wheat in a split application. Start with an initial application of 3/8 ounce of product (0.28 ounce of active ingredient) per acre after winter wheat and target weeds have emerged and are beyond the 2-leaf stage, followed by a second application of 3/8 ounce of this product *Outrider*® Herbicide (0.28 ounce of active ingredient) per acre in the spring, no sooner than two weeks following the initial application but prior to boot stage (Feeke's scale 9). Add a nonionic surfactant at a concentration of 0.5 percent by volume (2 quarts per 100 gallons of spray solution) with this postemergence application.

FOR SPLIT APPLICATION ONLY, DO NOT EXCEED 3/4 OUNCE OF PRODUCT (0.5625 OUNCE OF ACTIVE INGREDIENT) PER ACRE PER YEAR.

Tank Mixtures for Winter Wheat

For additional broadleaf weed control, this product may be applied as a spring postemergence application to winter wheat in a tank mixture with the following herbicides.

2,4-D amine^{1,2,3}

MCPA amine^{1,2,3}

2,4-D LV ester²

MCPA LV ester²

Bronate (bromoxynil + MCPA)

Puma (fenoxaprop)³

Buctril (bromoxynil)

Sencor 4 (metribuzin)^{3,4}

Buctril 4EC

Sencor DF (metribuzin)^{3,4}

¹ Tank mixtures with this herbicide may result in reduced control of brome species.

² Tank mixtures with this product may be made provided the specific product being used is registered for postemergence application to wheat.

³ Not recommended for use with split application rate of 3/8 ounce of *Outrider*® Herbicide.

⁴ Different formulations of the active ingredient may be used, provided that the specific product being used is registered for postemergence application to wheat.

Tank mixtures with herbicides formulated as amines may decrease the effectiveness of this product.

Refer to individual tank-mix product label for application rate and restrictions related to soil texture, soil organic matter, and wheat growth stage.

Tank mixtures with metribuzin may be applied only in the spring.

See the **MIXING** section of this label for additional information on Tank Mixtures.

Spring Wheat

When this product is applied to spring wheat as directed in this section, the following weeds are either controlled or suppressed as indicated for either preemergence or postemergence application:

WEED SPECIES	PRE	POST
Oat, wild <i>Avena fatua</i>	•	C
Sunflower, common <i>Helianthus annuus</i>	C	C
Quackgrass <i>Elytrigia repens</i>	•	S
Barley, volunteer <i>Hordeum vulgare</i>	S	S

C = Control S = Suppression • = Not controlled or suppressed

In spring wheat, apply a single postemergence application of 2/3 ounce of this product (0.5 ounce of active ingredient) per acre when soil moisture is adequate to support vigorous wheat and weed growth, and prior to jointing stage (Feekes' scale 6). Use a nonionic surfactant at a concentration of 0.5 percent by volume (2 quarts per 100 gallons of spray solution) with this postemergence application.

Do not apply this product postemergence to durum wheat.

For wild oat control, apply 2/3 ounce of this product (0.5 ounce of active ingredient) per acre when wild oat are in the 1 to 4 true leaf stage.

Tank Mixtures for Spring Wheat

For additional broadleaf weed control, this product may be applied to spring wheat in a tank mixture with the following herbicides:

2,4-D amine^{1, 2}

2,4-D LV ester²

Bronate (bromoxynil + MCPA)

Buctril (bromoxynil)

Buctril 4EC

Cheyenne

Curtail (clopyralid + 2,4-D)¹

Dakota (fenoxaprop + MCPA)

MCPA amine^{1, 2}

MCPA LV ester²

Puma (fenoxaprop)

Stinger (clopyralid)

Tiller (fenoxaprop + 2,4-D + MCPA)

¹ Tank mixtures with this herbicide may result in reduced control of grass species.

² Tank mixtures with this herbicide may be made provided the specific product is registered for this use.

Crop Rotation

No crop other than wheat may be planted sooner than 3 months after application of this product.

The following tables provide crop rotation intervals (months) for selected crops based on soil pH and cumulative precipitation by geographic region. For soils with pH higher than listed or for cumulative precipitation less than listed, a successful field bioassay must be completed before planting, as described in this section under **Field Bioassay**. If a shorter rotation interval other than that listed for a crop is desired, a successful field bioassay must be completed before planting.

All crops other than those listed in these tables may be seeded into fields treated with this product only after the completion of a successful field bioassay.

Field Bioassay

To conduct an effective field bioassay, plant strips of the crop you plan to grow the following season in fields previously treated with this product. Crop response will determine if the crop(s) planted in the test strips can be adequately grown in these areas.

Table 1 - OK, KS, NE, TX

Crop	Soil pH	Cumulative Precipitation (Inches)	Rotation Interval (Months)
Millet	< 7.5	18	3
Corn – IR	< 7.5	18	3
Soybean -STS™	< 7.5	18	3
Winter Canola (varieties that exhibit tolerance to sulfonylurea herbicides)	< 7.5	18	3
Corn – normal	< 7.5	30	12
Cotton	< 7.5	30	12
Soybean	< 7.5	30	12
Sorghum (grain)	6.0 - 7.5	30	22
Sunflower	< 6.0	30	17
Winter Canola (varieties that do not exhibit tolerance to sulfonylurea herbicides)	6.0 - 7.5	30	22

Table 2 - WA, OR, ID

Crop	Soil pH	Cumulative Precipitation (Inches)	Rotation Interval (Months)
Millet	< 7.5	18	3
CLEARFIELD Canola	< 7.5	18	3
Corn – IR	< 7.5	18	3
Soybean –STS	< 7.5	18	3
Potato	< 7.5	18	12
Barley	< 7.5	24	22
Canola	< 7.5	24	22
Corn – normal	< 7.5	24	22
Lentils	< 7.5	24	22
Peas* - all classes (including chickpeas)	> 6.5	24	22
	< 6.5	30	17
Soybean	< 7.5	24	22

* Peas should not be planted on clay or eroded hillsides treated with *Outrider*® Herbicide without conducting a field bioassay as described in this section.

Table 3 - CO, SD, WY

Crop	Soil pH	Cumulative Precipitation (Inches)	Rotation Interval (Months)
Millet	< 7.5	18	3
Corn – IR	< 7.5	18	3
Soybean -STS™	< 7.5	18	3
Corn – normal	< 7.5	24	22
Soybean	< 7.5	24	22
Sorghum (grain)	6.5 - 7.5	45	34
Sunflower	< 6.5	35	22

Table 4 - MT, ND

Crop	Soil pH	Cumulative Precipitation (Inches)	Rotation Interval (Months)
CLEARFIELD Canola	< 7.5	12	12

Table 5 - All Other Regions

Crop	Soil pH	Cumulative Precipitation (Inches)	Rotation Interval (Months)
Soybean –STS	<6.5	30	3
Soybean	<6.5	30	5
	<7.5	24	12

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Manufactured for:

Valent U.S.A. LLC

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San Ramon CA 94583

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