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7/3/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D C 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Bert Volger
Agent for Helm Agro US Inc
c/o Ceres International LLC
1087 Heartsease Drive
West Chester, PA 19382

7312

Subject Label Amendment / Helosate Plus Advanced
EPA Reg No 74530-43

Dear Mr Volger

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable

Submit one copy of the final printed label for the record before you release the product for shipment. A stamped copy of the label is enclosed for your records. This master label supersedes all previously accepted labels. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. If you have any questions please call Erik Kraft at 703-308-9358 or email at Kraft.Erik@epa.gov

Sincerely,

A handwritten signature in black ink, appearing to read "Kable Bo Davis".

Kable Bo Davis
Product Manager 25
Herbicide Branch
Registration Division (7505P)

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Helosate Plus Advanced Herbicide

This product contains an ADVANCED fully loaded proprietary surfactant and anti foaming system for maximum performance and weed control. Avoid herbicide contact with foliage, green stems, exposed non woody roots or fruit of crops, desirable plants and trees because severe injury or destruction may result.

Group 9 Herbicide

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

1⁰ INGREDIENTS

ACTIVE INGREDIENT

*Glyphosate (n (phosphonomethyl) glycine) in the form of its isopropylamine salt 41.0%

OTHER INGREDIENTS 59.0%

TOTAL 100.0%

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

EPA Reg. No. 74530-43

EPA Est. No. 62171 MS 001

2⁰ PRECAUTIONARY STATEMENTS

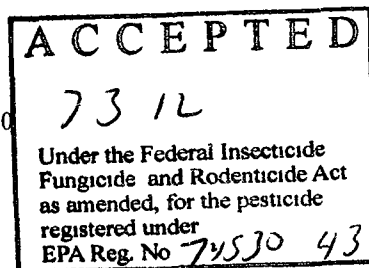
2¹ FIRST AID

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 eye. 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.
If inhaled	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
If swallowed	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	

Net Contents 2.5 Gallons



Manufactured for
HELM AGRO US, Inc.
8275 Tournament Drive, Suite 340
Memphis, Tennessee 38125



2² IMPORTANT PHONE NUMBER

FOR CHEMICAL EMERGENCY Spill leak fire exposure or accident call CHEMTREC 1 800 424 9300

2³ PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS KEEP OUT OF REACH OF CHILDREN

CAUTION

Causes moderate eye irritation Harmful if swallowed inhaled or absorbed through skin Avoid contact with eyes skin or clothing Avoid breathing spray mist Wash thoroughly with soap and water after handling Remove contaminated clothing and wash clothing before re use

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear

long sleeved shirt and long pants

shoes plus socks

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

Engineering controls statement 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 INSTRUCTIONS

Users should

Wash hands 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

2⁴ ENVIRONMENTAL HAZARDS

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 disposing of equipment washwaters or rinsate

2⁵ PHYSICAL OR CHEMICAL HAZARDS

PHYSICAL OR CHEMICAL HAZARDS

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

DO NOT MIX STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS

This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture This gas mixture could flash or explode causing serious personal injury if ignited by open flame spark welder s torch lighted cigarette or other ignition source

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling Do not apply this product in a way that will contact workers or other persons either directly or through drift Only protected handlers may be in the area at the time of application For any requirements specific to your State or Tribe consult the agency responsible for pesticide regulations

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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 area 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
- chemical resistant gloves made of any waterproof material
- 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.

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3⁰ STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal

PESTICIDE STORAGE

Open dumping is prohibited Store in original container only Keep containers closed when not in use Separate pesticides during storage to prevent cross contamination of other pesticides fertilizers food and feed

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 retains vapor and product residue Observe all labeled safeguards until container is destroyed

CONTAINER HANDLING

Containers that are 270 gallons or smaller are **NONREFILLABLE** containers Containers that are 275 gallons or larger are **REFILLABLE** containers Follow the appropriate instructions below

Nonrefillable Containers Do not reuse or refill this container Offer for recycling if available or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities Clean container promptly after emptying

Nonrefillable container equal to or less than 5 gallons 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 / 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

Nonrefillable Container greater than 5 gallons to 270 gallons Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container / 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

Refillable Container (275 gallons or larger) Refill this container with glyphosate 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 percent full with water Agitate vigorously or recirculate water with the pump for 2 minutes Pour or pump rinsate into application equipment or rinsate collection system Repeat this rinsing procedure two more times Dispose of in a sanitary landfill or by other procedures approved by state and local authorities

4⁰ PRODUCT INFORMATION

PRODUCT INFORMATION

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

This product mixes readily with water to be applied as a foliar spray for the control or destruction of most herbaceous plants It may be applied through most standard industrial or field type sprayers after dilution and thorough mixing with water in accordance with label instructions

This product moves through the plant from the point of foliage contact to and into the root system Visible effects on most annual weeds occur within 2 to 4 days but on most perennial weeds may not occur for 7 days or more Extremely cool or cloudy weather following treatment may slow activity of this product and delay visible effects of control Visible effects are a gradual wilting and yellowing of the plant which advances to complete browning of above ground growth and deterioration of underground plant parts

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Unless otherwise specified on this label delay application until vegetation has emerged and reached the stages described for control of such vegetation under the WEEDS CONTROLLED section of this label

Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the herbicide and will continue to grow For this reason best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity

Always use the higher rate of this product per acre within the specified range when (1) weed growth is heavy or dense or (2) weeds are growing in an undisturbed (noncultivated) area

Do not treat weeds under poor growing conditions such as drought stress disease or insect damage as reduced weed control may result Reduced results may also occur when treating weeds heavily covered with dust

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

Rainfall or irrigation occurring within 6 hours after application may reduce effectiveness Heavy rainfall or irrigation within 2 hours after application may wash the chemical off the foliage and a repeat treatment may be required

This product does not provide residual weed control For subsequent residual weed control follow a label approved herbicide program Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used

To the extent consistent with applicable law buyers 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

In the spring when temperatures may be cooler than usual the application of HELOSATE PLUS ADVANCED to perennial or annual ryegrass wheat as a cover crop or volunteer wheat requires an additional surfactant for maximum control See the Additives Section of this label for further information

For best results spray coverage should be uniform and complete Do not spray weed foliage to the point of runoff

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

4¹ Weed Resistance Management

Group 9 Herbicide

Based on the mode of action classification system of the Weed Science Society of America Glyphosate (active ingredient) is a Group 9 herbicide Group 9 herbicides may contain plants from any weed population that can be naturally resistant to glyphosate These weed resistant plants can be effectively controlled using a different Group herbicide or by using other means such as cultural or mechanical practices

4² Weed Resistance Management Directions

Glyphosate resistant biotypes can be minimized by utilizing the following weed resistance management instructions

- 1 Begin by preparing your field using tillage or a burndown herbicide application
- 2 It is a good practice to scout your fields before and after applications
- 3 Use new commercial seeds that have fewer weed seeds
- 4 Apply early control of weeds that are relatively small
- 5 Cultural practices such as crop rotation or tillage and the addition of other herbicides such as a selective and/or a residual herbicide where appropriate are suggested
- 6 Rotating to other Roundup Ready crops is one method for adding other herbicides into a continuous

- Roundup Ready system
- 7 Follow the specified label rate for the most difficult to control weeds. Reject directions that support lower application rates when tank mixing as well as tank mixtures with other herbicides that will reduce product efficacy.
- 8 Follow good agricultural practices by cleaning equipment prior to shifting from field to field preventing weed seed or plant root parts from spreading.
- 9 Any incidence of repeated non performance of this product on a particular weed should be reported to any Helm representative your county extension agent or to the local retailer.

4³ Glyphosate Resistant Biotypes Management Directions

In order to reduce the spread of confirmed glyphosate resistant biotypes follow these practices

- 1 When a naturally occurring resistant biotype(s) is present tank mix or apply sequentially with an appropriate herbicide with a different mode of action to achieve control.
- 2 Use cultural and mechanical control practices such as crop rotation or tillage as appropriate.
- 3 Rotation to other Roundup Ready crops is one method for adding other herbicides into a continuous Roundup Ready system.
- 4 Control escaping weeds including resistant biotypes before they set seed and scout treat fields after herbicide application.
- 5 Clean equipment thoroughly prior to exiting fields known to contain resistant biotypes.

To the extent consistent with applicable law Helm Agro US Inc is not responsible for any losses that may result from the failure of this product to control glyphosate resistant weed biotypes as the occurrence of new glyphosate resistant weeds cannot be determined until after the product use and scientific confirmation.

5⁰ MIXING INSTRUCTIONS

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

5¹ Mixing, Additives, and Application Instructions

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES DO NOT APPLY WHEN WIND OR OTHER CONDITIONS FAVOR DRIFT HAND HELD APPLICATIONS SHOULD BE PROPERLY DIRECTED TO AVOID SPRAYING DESIRABLE PLANTS
NOTE REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED SUCH AS WATER FROM PONDS AND UNLINED DITCHES

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

Clean sprayer parts immediately after use of this product by thoroughly flushing with water

5² Mixing with Water

This product mixes readily with water Mix spray solutions of this product as follows Fill the mixing or spray tank with the required amount of water Add the specified amount of this product (see the DIRECTIONS FOR USE and WEEDS CONTROLLED sections of this label) near the end of the filling process and mix well Use caution to avoid siphoning back into the carrier source Use approved anti back siphoning devices where required by state or local regulations During mixing and application foaming of the spray solution may occur To prevent or minimize foam 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

5³ Tank Mixture Instructions

When products in this section are referred to by brand name the substitution of an approved generic version is acceptable

TANK MIXTURES

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

Under certain growth stages and/or under other circumstances some tank mixtures have the potential to cause crop injury Prior to use read all labels for products to be used in the tank mixture to determine the potential for crop injury

To the extent consistent with applicable law buyers 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 specified in this labeling Tank mixtures with other herbicides insecticides fungicides micronutrients or folia fertilizers may result in reduced weed control or crop injury and are NOT specified for applications of this product unless otherwise noted in this label

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

Always observe all precautions and limitations on the label including application timing restrictions soil restrictions minimum re cropping interval and rotational guidelines of all individual product labels when tank mixing Use the most restrictive precautionary statements for each product in the tank mixture

Always predetermine the compatibility of labeled tank mixtures of this product with water carrier by mixing small proportional quantities in advance

Mixing order is as follows

- 1 Water
- 2 Agitation
- 3 HELOSATE PLUS ADVANCED
- 4 Tank mix partner
- 5 Additional adjuvant

Never tank mix without constant and complete agitation

Mix labeled tank mixtures of this product with water as follows

- 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 a wettable powder is used make a slurry with the water carrier and add it SLOWLY through the screen into the tank Continue agitation
- 4 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
- 5 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
- 6 Continue filling the spray tank with water and add the required amount of this product near the end of the filling process
- 7 Where nonionic surfactant is specified add this to the spray tank before completing the filling process
- 8 Add individual formulations to the spray tank as follows wettable powder flowable emulsifiable concentrate drift control additive water soluble liquid followed by surfactant

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 on or near bottom of the tank to minimize foaming Screen size in nozzle or line strainers should be no finer than 50 mesh Carefully select proper nozzle to avoid spraying a fine mist For best results with conventional ground application equipment use flat fan nozzles Clean sprayer and parts immediately after using this product by thoroughly flushing with water

UNDER NO CIRCUMSTANCE DOES HELM AGRO US INC SUPPORT A REDUCED RATE APPLICATION

FROM SUGGESTED CONCENTRATIONS ON THIS LABEL THIS INCLUDES INSTANCES WHERE A TANK MIX PARTNER IS USED FOR ALL ROUNDUP CROP APPLICATIONS THE STANDARD USE RATE IS 32 OUNCES PER ACRE DEVIATION FROM THIS RATE WILL REDUCE PERFORMANCE IF OTHER MANUFACTURERS SUGGEST REDUCING THE RATE TO TANK MIX WITH THEIR PRODUCT OR OTHER PRODUCTS HELM AGRO US INC WILL NOT SUPPORT THE APPLICATION

5⁴ Additive Instructions

ADDITIVES

5⁵ Surfactants

Nonionic surfactants that are labeled for use with herbicides may be used Do not reduce rates of this product when adding surfactant When adding additional surfactant use 0.5% surfactant concentration (2 quarts per 100 gallons of spray solution) when using surfactants that contain at least 70% active ingredient or a 1% surfactant concentration (4 quarts per 100 gallons of spray solution) for those surfactants containing less than 70% active ingredient Read and carefully observe surfactant cautionary statements and other information appearing on the surfactant label

When applied as directed under the conditions described this product controls annual and perennial weeds listed in this label

DO NOT add buffering agents or pH adjusting agents to the spray solution when HELOSATE PLUS ADVANCED is the only pesticide product used DO NOT ADD ADDITIONAL SURFACTANT OR ADDITIVES CONTAINING SURFACTANT TO THIS PRODUCT FOR PREHARVEST APPLICATIONS TO COTTON

5⁶ Ammonium Sulfate

The addition of 1 to 2% dry ammonium sulfate by weight or 8.5 to 17 pounds per 100 gallons of water may increase the performance of this product and this product plus 2,4-D dicamba or residual herbicide tank mixtures on annual and perennial weeds particularly under hard water conditions drought conditions or when tank mixed with certain residual herbicides The improvement in performance may be apparent where environmental stress is a concern Low quality ammonium sulfate may contain material that will not readily dissolve which could result in nozzle tip plugging To determine quality perform a jar test by adding 1/3 cup of ammonium sulfate to 1 gallon of water and agitate for 1 minute If undissolved sediment is observed predissolve the ammonium sulfate in water and filter prior to addition to the spray tank If ammonium sulfate is added directly to the spray tank add slowly with agitation Adding too quickly may clog outlet line Ensure the ammonium sulfate is completely dissolved in the spray tank before adding herbicides or surfactant Thoroughly rinse the spray system with clean water after use to reduce corrosion

NOTE The use of ammonium sulfate as an additive does not preclude the need for additional surfactant Do not use herbicide rates lower than specified in this label Using lower rates will result in reduced performance

5⁷ 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

5⁸ Drift Control

When a drift control additive is used read and carefully observe the cautionary statements and all other information appearing on the additive label The use of a drift reduction additive can affect spray coverage which can reduce product performance

6⁰ SPRAY DRIFT

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator and the grower The interaction of many equipment and weather related factors determines the potential for spray drift The applicator and the grower are

responsible for considering all these factors when making decisions

AVOID DRIFT EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS

DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITIONS WHICH WILL ALLOW DRIFT DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION APPROPRIATE BUFFER ZONES MUST BE MAINTAINED

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

Coarse sprays are less likely to drift therefore do not use nozzles or nozzle configurations which dispense spray as fine spray droplets Do not angle nozzles forward into the airstream and do not increase nozzle pressure

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

6¹ Aerial Spray Drift Management

AERIAL SPRAY DRIFT MANAGEMENT

Use the following information 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

- 1 Do not apply within 100 feet of all desirable vegetation or crop(s)
- 2 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)
- 3 Winds blowing from 5 to 10 miles per hour toward desirable vegetation or crop(s) may require buffer zones in excess of 500 feet
- 4 Do not apply when winds are in excess of 10 miles per hour or when inversion conditions exist

The following drift management requirements must also be followed to avoid off target drift movement from aerial applications to agricultural field crops These requirements do not apply to forestry applications or to public health uses

- 1 The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor
- 2 Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees Where states have more stringent regulations they should be observed

Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control Applying larger droplets reduces drift potential but will not prevent drift if applications are made improperly or under unfavorable environmental conditions (see the Wind Temperature and Humidity and Temperature Inversion sections of this label)

Controlling Droplet Size

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

Pressure Use the lower spray pressures as specified for the nozzle Higher pressure reduces droplet size and does not improve canopy protection 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 released backwards parallel to the airstream will produce larger droplets than other orientations Significant deflection from the horizontal will reduce droplet size and increase drift potential

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

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 the exposure of the droplets to evaporation and wind

Swath Adjustment When applications are made with a crosswind the swath will be displaced downwind Therefore on the up and downwind edges of the field the applicator must compensate for this displacement by adjusting the path of the aircraft upwind Swath adjustment distance should increase with increasing drift potential (higher wind smaller droplets 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 Application must be avoided below 2 mph due to variable wind direction and high inversion potential **NOTE** Local terrain can influence wind patterns Every applicator must be familiar with local wind patterns and how they affect drift

Temperature and Humidity When making 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 light variable winds common during inversions Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind They begin to form as the sun sets and often continue into the morning Their presence can be indicated by ground fog however if fog is not present inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion while smoke that moves upward and rapidly dissipates indicates good vertical air mixing

Sensitive Areas 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)

Avoid direct application to any body of water

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 ARE MOST SUSCEPTIBLE** The maintenance of an organic coating (paint) which meets aerospace specification MIL C 38413 may prevent corrosion

THIS PRODUCT PLUS OUST® DICAMBA OR 2 4 D TANK MIXTURES MAY NOT BE APPLIED BY AIR IN CALIFORNIA

6² For Aerial Applications in California Only

Directions for Use

This label must be in the possession of the user at the time of the herbicide application

See **PRODUCT INFORMATION** and **MIXING ADDITIVES** and **APPLICATION INSTRUCTIONS** sections of this label for essential product performance information

See the **CROPPING SYSTEMS** section of this label for specific instructions on the use of this product

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE GREEN STEMS

OR FRUIT OF DESIRABLE CROPS PLANTS TREES OR OTHER DESIRABLE VEGETATION SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT

Aerial applications of this product are allowed in the following situations

- 1 In fallow and reduced tillage systems prior to the emergence or transplanting of labeled crops
- 2 Prior to harvest in cotton soybeans wheat and Roundup Ready® canola corn and cotton

Do not plant subsequent crops other than those listed in this label for 30 days following application

When applied as directed under the conditions described HELOSATE PLUS ADVANCED controls annual and perennial weeds listed in this label

DO NOT EXCEED MAXIMUM RATE OF 1 QUART PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR WITH THE FOLLOWING EXCEPTIONS

DO NOT EXCEED A MAXIMUM RATE OF 2 QUARTS PER ACRE OF THIS PRODUCT WHEN MAKING APPLICATIONS BY AIR IN FALLOW AND REDUCED TILLAGE SYSTEMS AND PRIOR TO HARVEST IN ROUNDUP READY COTTON

**6³ FOR AERIAL APPLICATION IN FRESNO COUNTY CALIFORNIA ONLY
FROM FEBRUARY 15 THROUGH MARCH 31 ONLY**

NOTE For aerial application outside these dates refer to **FOR AERIAL APPLICATION IN CALIFORNIA ONLY** section

Directions for Use

This label must be in the possession of the user at the time of the herbicide application

See **PRODUCT INFORMATION** and **MIXING ADDITIVES** and **APPLICATION INSTRUCTIONS** sections of this label for essential product performance information

See the **CROPPING SYSTEMS** section of this label for specific instructions on the use of this product

Applicable Area

This supplemental only applies to the area contained inside the following boundaries within Fresno County California only

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 application of HELOSATE PLUS ADVANCED

Minimization of off site movement is the responsibility of the grower Pest Control Advisor and aerial applicator

Written Instructions

A written instruction **MUST** be submitted by or on behalf of the applicator to the Fresno County Agricultural Commissioner 24 hours prior to application This written instruction **MUST** state the proximity of the surrounding crops and that conditions of each manufacturer s applicable product label(s) and this label have been satisfied

6⁴ For Aerial Application In Arkansas Only

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling

AVOID CONTACT OF HERBICIDE WITH FOLIAGE GREEN STEMS EXPOSED NON WOODY ROOTS OR

FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY CROPS) DESIRABLE PLANTS AND TREES AS SEVERE INJURY OR DESTRUCTION MAY RESULT

AVOID DRIFT EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS

DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITIONS WHICH WILL ALLOW DRIFT DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION APPROPRIATE BUFFER ZONES MUST BE MAINTAINED

See Product Information and Mixing sections of the container label for this product for essential product performance information

AERIAL APPLICATIONS

Use the specified rate of this product in 3 to 15 gallons of water per acre

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

Apply only when the wind speed is less than or equal to 10 mph at the application site

Do not apply by air if drift can occur to sensitive nontarget crops or plants that are within 100 feet of the application site

If wind up to 5 miles per hour is blowing toward desirable vegetation or crops do not apply within 500 feet upwind of the desirable vegetation or crops

Winds blowing from 5 to 10 miles per hour toward desirable vegetation or crops will likely require buffer zones in excess of 500 feet

Use sufficient carrier volume and appropriate equipment set up to form droplets large enough to avoid drift potential Coarse droplets in the 300 to 500 (VMD) micron ranges are specified

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

The boom length must not exceed 75% of the wingspan or rotor blade diameter In many cases reducing this distance to 65% of the length of the wingspan or rotor will improve drift control without affecting the swath width

Do not make any type of application into temperature inversions Do not apply into still air where there is a temperature inversion layer low enough for fine spray particles to become suspended and move outside the target area when the inversion layer moves These conditions may occur when wind speeds are less than 2 mph

Nozzles must always discharge backward parallel with the air stream and never discharge downwards more than 45 degrees on fixed wing aircraft or forward of the prevailing air flow on rotary winged aircraft Avoid the use of nozzles with wide angle discharge

7⁰ APPLICATION EQUIPMENT AND TECHNIQUES

Do not apply this product through any type of irrigation system This product may be applied with the following application equipment

Aerial Fixed wing and helicopter

Broadcast Spray – Ground – Boom or boomless systems pull type sprayers floaters pick up sprayers spray coupes and other broadcast equipment

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

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Hand Held and High Volume Spray Equipment Knapsack and backpack sprayers pump up pressure sprayers handguns handwands mistblowers* lances and other hand held and motorized Spray equipment used to direct the spray onto weed foliage

*THIS PRODUCT IS NOT REGISTERED IN CALIFORNIA OR ARIZONA FOR USE IN MISTBLOWERS

Selective Equipment Recirculating sprayers shielded sprayers and wiper applicators

Injections Systems Ground or aerial injections systems

See the appropriate part of this section for specific instructions and rates of application

SPRAY SOLUTIONS SHOULD BE APPLIED IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT THAT IS CAPABLE OF DELIVERING VOLUMES DESIRED

7¹ Aerial Applicator Training and Equipment

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

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

7² Aerial Equipment

Use the specified rates of this herbicide in 3 to 15 gallons of water per acre unless otherwise specified on this label See the WEEDS CONTROLLED section of this label for specific rates Unless otherwise specified do not exceed 1 quart per acre Aerial applications of this product may be made in annual cropping conventional tillage systems fallow and reduced tillage systems preharvest silvicultural sites and rights of way Refer to the individual use area sections of this label for specified volumes and application rates

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

AVOID DRIFT DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITIONS WHICH WILL ALLOW DRIFT DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION APPROPRIATE BUFFER ZONES MUST BE MAINTAINED

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

- 1 Do not apply within 100 feet of all desirable vegetation or crop(s)
- 2 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)
- 3 Winds blowing from 5 to 10 miles per hour toward desirable vegetation or crop(s) may require buffer zones in excess of 500 feet
- 4 Do not apply when winds are in excess of 10 miles per hour or when inversion conditions exist

Coarse sprays are less likely to drift therefore do not use nozzles or nozzle configurations which dispense spray as fine spray droplets Do not angle nozzles forward into the airstream and do not increase nozzle pressure

Drift control additives may be used When a drift control additive is used read and carefully observe the cautionary statements and all other information appearing 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 ARE MOST SUSCEPTIBLE The maintenance of an organic coating (paint) which meets aerospace specification MIL C 38413 may prevent corrosion

7³ Ground Broadcast Equipment

For control of annual or perennial weeds listed on this label using broadcast equipment Use the specified rates of this product in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified on this label See the WEEDS CONTROLLED section of this label for specific rates As density of weeds increases spray volume should be increased within the specified range to ensure complete coverage Carefully select proper nozzle to avoid spraying a fine mist For best results with ground application equipment use flat fan nozzles Check for even distribution of spray droplets

7⁴ Controlled Droplet Application (CDA)

The rate of this product applied per acre by vehicle mounted 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 3 to 15 gallons of water per acre

For the control of labeled annual weeds with hand held CDA units apply a 20% solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 1.5 mph (1 quart per acre) For the control of labeled perennial weeds apply a 20 to 40% solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 0.75 mph (2 to 4 quarts per acre)

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

7⁵ Hand Held and High Volume Equipment

Use coarse sprays only

Mix this product in clean water and 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

For control of annual weeds listed on this label apply a 0.5% solution of this product plus nonionic surfactant to weeds less than 6 inches in height or runner length Apply prior to seedhead formation in grass or bud formation in broadleaf weeds Allow three or more days before tillage or mowing

For annual weeds over 6 inches tall or when not using additional surfactant or unless otherwise specified use a 1% solution For best results use a 2% solution on harder to control perennials such as Bermuda grass dock field bindweed hemp dogbane milkweed and Canada thistle

When using application methods that result in less than complete coverage use a 5% solution for annual and perennial weeds and a 5 to 10% solution for woody brush and trees

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

Spray Solution

Desired volume	Amount of HELOSATE PLUS ADVANCED					
	1/2 %	1 %	1 1/2 %	2 %	5 %	10 %
1 gallon	2/3 oz	1 1/3 oz	2 oz	2 2/3 oz	6 1/2 oz	13 oz

25 gallons	1 pt	1 qt	1 1/2 qt	2 qt	5 qt	10 qt
100 gallons	2 qt	1 gal	1 1/2 gal	2 gal	5 gal	10 gal
2 tablespoons = 1 fluid ounce						

For use in knapsack sprayers it is suggested that the specified amount of this product be mixed with water in a larger container. Fill sprayer with the mixed solution.

7⁶ Selective Equipment

This product may be applied through a recirculating spray system, a shielded applicator, 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 specifically specified in cropping systems.

A recirculating spray system directs the spray solution onto weeds growing above desirable vegetation while spray solution not intercepted by weeds is collected and returned to the spray tank for reuse.

A shielded applicator directs the herbicide solution onto weeds while shielding desirable vegetation from the herbicide.

A wiper applicator applies the herbicide solution onto weeds by rubbing the weed with an absorbent material containing the herbicide solution.

AVOID CONTACT WITH DESIRABLE VEGETATION

Contact of the herbicide solution with the desirable vegetation may result in damage or destruction. Applicators used above desired vegetation should be adjusted so that the lowest spray stream or wiper contact point is at least 2 inches above the desirable vegetation. Droplets, mist, foam, or splatter of the herbicide solution settling on desirable vegetation may result in discoloration, stunting, or destruction.

Applications made above the crops should be made when the weeds are a minimum of 6 inches above the desirable vegetation. Better results may be 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. In these instances, repeat treatment may be necessary.

7⁷ Shielded Applicators/Hooded Sprayers

When applied as directed under conditions described for shielded applicators and hooded sprayers, this product will control those weeds listed in the WEEDS CONTROLLED section of this label.

Use the following equation to convert from a broadcast rate per acre to a band rate per acre:

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{herbicide broadcast RATE / acre} = \text{herbicide band RATE / acre}$$

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{herbicide broadcast VOLUME of solution / acre} = \text{band VOLUME of solution / acre}$$

Use nozzles that provide uniform coverage within the treated area. Keep shields on shielded sprayers adjusted to protect desirable vegetation. **EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT WITH DESIRABLE VEGETATION.**

A hooded sprayer is a type of shielded sprayer where the spray pattern is fully enclosed including the top, sides, front and back, thereby shielding the crop from the spray solution. To protect desirable vegetation, adjust the shields on these sprayers. When applications are made to crops grown on raised beds, make sure the hood is capable of completely enclosing the spray pattern. If necessary, extend the front and rear flaps of the hooded applicator downward to reach the ground in deep furrows. **EXTREME CARE MUST BE TAKEN TO AVOID CONTACT OF THIS HERBICIDE WITH DESIRABLE VEGETATION.**

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For specific rates of application and instructions for control of various annual weeds and perennial weeds see the WEEDS CONTROLLED section of this label

7⁸ 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 When more of the weed is exposed to the herbicide solution better results may be obtained Weeds should be a minimum of 6 inches above the desirable vegetation To ensure adequate contact with weeds adjust the height of the applicator Weeds not contacted by the 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 In these instances repeat applications may be necessary Operate this equipment at ground speeds no greater 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 2 applications are made in opposite directions

Droplets mist foam or splatter of the herbicide solution 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 1 day period as reduced activity may result from use of leftover solutions Clean wiper parts immediately after using this product by thoroughly flushing with water

Do not add surfactant to the herbicide solution

For rope or sponge wick applicators Mix 1 gallon of this product in 2 gallons of water to prepare a 33% solution Apply this solution to weeds listed in this Wiper Applicators section

For porous plastic applicators Solutions ranging from 33 to 100% of this product in water may be used in porous plastic wiper applicators

When applied as specified under the conditions described for Wiper Applicators this product CONTROLS the following weeds	
Annual Grasses	
Corn	<i>Zea mays</i>
Panicum Texas	<i>Panicum texanum</i>
Rye common	<i>Secale cereale</i>
Shattercane	<i>Sorghum bicolor</i>
Annual Broadleaves	
Sicklepod	<i>Cassia obtusifolia</i>
Spanishneedles	<i>Bidens bipinnata</i>
Starbur bristly	<i>Acanthospermum hispidum</i>
When applied as specified under the conditions described for Wiper Applicators this product SUPPRESSES the following weeds	
Annual Broadleaves	

Beggarweed Florida	<i>Desmodium tortuosum</i>
Dogfennel	<i>Eupatorium capilliflorum</i>
Pigweed redroot	<i>Amaranthus retroflexus</i>
Ragweed common	<i>Ambrosia artemisifolia</i>
Ragweed giant	<i>Ambrosia trifida</i>
Sunflower	<i>Helianthus annuus</i>
Thistle musk	<i>Carduus nutans</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Perennial Grasses	
Bermuda grass	<i>Cynodon dactylon</i>
Guineagrass	<i>Panicum maximum</i>
Johnsongrass	<i>Sorghum halepense</i>
Smutgrass	<i>Sporobolus poiretii</i>
Vaseygrass	<i>Paspalum urvillei</i>
Perennial Broadleaves	
Dogbane hemp	<i>Apocynum cannabinum</i>
Milkweed	<i>Asclepias syriaca</i>
Nightshade silverleaf	<i>Solanum elaeagnifolium</i>
Thistle Canada	<i>Cirsium arvense</i>

7⁹ 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 for use in injection systems.

8⁰ WEEDS CONTROLLED

This herbicide controls many annual and perennial grasses and broadleaf weeds.

8¹ Annual Weeds

Apply to actively growing grass and broadleaf weeds.

Allow at least 3 days after treatment before tillage.

For maximum agronomic benefit, apply when weeds are 6 inches or less in height.

To prevent seed production, applications should be made prior to seedbed formation.

This product does not provide residual control; therefore, delay application until maximum weed emergence. Repeat treatments may be necessary to control later germinating weeds.

Low Volume Broadcast Application (Low Rate Technology)

When applied as directed under the conditions described, this product will control the weeds listed below when:

1. Use water carrier volumes of 3 to 10 gallons per acre for ground applications and 3 to 5 gallons per acre for aerial applications. (See the AERIAL EQUIPMENT section of this label for approved sites.)

2. A nonionic surfactant is added at 0.5 to 1% by total spray volume. Use 0.5% surfactant concentration when using surfactants that contain at least 70% active ingredient or a 1% surfactant concentration for those surfactants containing less than 70% active ingredient.

NOTE

The addition of 2% dry ammonium sulfate by weight or 17 pounds per 100 gallons of water may increase the performance of this product on annual weeds. The improvement in performance may be apparent where environmental stress is a concern. Refer to the MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS section of this label.

Do not tank mix with soil residual herbicides when using these rates unless otherwise specified.

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For weeds that have been mowed grazed or cut allow regrowth to occur prior to treatment
 Refer to the Tank Mixtures portion of this section for control of additional broadleaf weeds

Weed Species For water volumes surfactant and/or additives see above		Maximum Height Length	Rate per Acre* (fl oz)
Foxtail	<i>Setaria spp</i>	12	8 oz
Barnyardgrass	<i>Echinochloa crus galli</i>	6 [0 to 4 ¹ [4 to 6 ¹	12 oz 16 oz ¹ 24 oz ¹
Bluegrass annual Brome downy** Mustard blue Mustard tansy Mustard tumble Mustard wild Spurry umbrella	<i>Poa annua</i> <i>Bromus tectorum</i> <i>Chorispora tenella</i> <i>Descurainia pinnate</i> <i>Sisymbrium altissimum</i> <i>Brassica kaber</i> <i>Holosteum umbellatum</i>	6	12 oz
Barley Rye Sandbur field Shattercane Stinkgrass	<i>Hordeum vulgare</i> <i>Secale cereale</i> <i>Cenchrus spp</i> <i>Sorghum bicolor</i> <i>Eragrostic ciliaransis</i>	12	12 oz
Wheat	<i>Triticum aestivum</i>	18	12 oz
Morningglory	<i>Ipomoea spp</i>	2	16 oz
Sicklepod	<i>Cassia obtusifolia</i>	2 2 to 4 4 to 12	16 oz 24 oz 32 oz
Bluegrass bulbous Cheat Chickweed common Chickweed mouseear Corn Goatgrass jointed Groundsel common Henbit Pennycress field (fanweed) Rocket London Ryegrass common or Italian Shepherd s purse	<i>Poa bulbosa</i> <i>Bromus secalinus</i> <i>Stellaria media</i> <i>Cerastium vulgatum</i> <i>Zea mays</i> <i>Aegilops cylindrica</i> <i>Senecio vulgaris</i> <i>Lamium amplexicaule</i> <i>Thaspi arvense</i> <i>Sisymbrium irio</i> <i>Lolium multiflorum</i> <i>Capsella bursa pastoris</i>	6	16 oz
Horseweed / marestail Lambsquarters common Spurge annual	<i>Conyza canadensis</i> <i>Chenopodium album</i> <i>Euphorbia spp</i>	6 6 to 12	16 oz 24 oz

Buttercup	<i>Ranunculus spp</i>	12	16 oz
Cocklebur	<i>Xanthium strumarium</i>		
Crabgrass	<i>Digitaria spp</i>		
Dwarf dandelion	<i>Krigia cespitosa</i>		
False flax smallseed	<i>Camelina microcarpa</i>		
Foxtail Carolina	<i>Alopecurus carolinianus</i>		
Johnsongrass seedling	<i>Sorghum halepense</i>		
Oats wild	<i>Avena fatua</i>		
Panicum fall	<i>Panicum dichotomiflorum</i>		
Panicum Texas	<i>Panicum texanum</i>		
Pigweed redroot	<i>Amaranthus retroflexus</i>		
Pigweed smooth	<i>Amaranthus hybridus</i>		
Witchgrass	<i>Panicum capillare</i>		
Signalgrass broadleaf	<i>Brachiaria platyphylla</i>	4	24 oz
Rice red	<i>Oryza sativa</i>	4	32 oz
Teaweed	<i>Sida spinosa</i>		
Sprangletop	<i>Leptochloa spp</i>	6 6 to 12	32 oz 48 oz
Geranium Carolina	<i>Geranium carolinianum</i>	12	32 oz
Goosegrass	<i>Eleusine indica</i>		
Primrose cutleaf evening	<i>Oenothera laciniata</i>		
Pusley Florida	<i>Richardia scabra</i>		
Spanishneedles	<i>Bidens bipinnata</i>	5 to 12	32 oz
Filaree	<i>Erodium spp</i>	12	48 oz

¹ Use these rates to control barnyardgrass in Alabama Arkansas Mississippi Missouri Louisiana and Texas for preplant treatments

* For those rates less than 32 fl oz per acre this product at rates up to 32 fl oz per acre may be used where heavy weed densities exist

** For control in no till systems use 16 fl oz per acre

Tank Mixtures

HELOSATE PLUS ADVANCED plus dicamba plus nonionic surfactant

HELOSATE PLUS ADVANCED plus 2 4 D plus nonionic surfactant

DO NOT APPLY DICAMBA OR 2 4 D TANK MIXTURES BY AIR IN CALIFORNIA

Use these tank mixtures in fallow and reduced tillage areas only Follow use directions as given in the Low Volume Broadcast Application section

This product plus dicamba or 2 4 D will control the annual grasses and broadleaf weeds listed for this product alone at the indicated heights (except 8 fl oz per acre applications) plus the following broadleaf weeds For those weeds previously listed at 8 fl oz of this product alone per acre use 12 fl oz in these tank mixtures

NOTE Refer to the specific product labels for crop rotation restrictions and cautionary statements for all products used in tank mixtures Some crop injury may occur if dicamba is applied within 45 days of planting The addition of dicamba in a mixture with this product may provide short term residual control of selected weed species

Apply 12 to 16 fl oz of this product plus 0.25 pound active ingredient of dicamba or 0.5 pound active ingredient of 2 4 D plus 0.5 to 1% nonionic surfactant by total spray volume per acre to control dense populations of the following annual broadleaf weeds when less than the height indicated

Cocklebur (12)	<i>Xanthium strumarium</i>	Morningglory (6)	<i>Ipomoea spp</i>
Horseweed/marestail (6)	<i>Conyza canadensis</i>	Pigweed redroot (12)	<i>Amaranthus retroflexus</i>
Kochia* (6)	<i>Kochia scoparia</i>	Pigweed smooth (12)	<i>Amaranthus hybridus</i>
Lambsquarters (12)	<i>Chenopodium album</i>	Thistle Russian (12)	<i>Salsola kali</i>
Lettuce prickly (6)	<i>Lactuca serriola</i>		

* Controlled with dicamba tank mixture only

Apply 16 fl oz of this product plus 0.5 pound active ingredient of 2,4-D plus 0.5 to 1% nonionic surfactant by total spray volume per acre to control the following annual broadleaf weeds when less than 6 inches in height

Ragweed common	<i>Ambrosia artemisiifolia</i>	Smartweed Pennsylvania	<i>Polygonum pennsylvanicum</i>
Ragweed giant	<i>Ambrosia trifida</i>	Velvetleaf	<i>Abutilon theophrasti</i>

High Volume Broadcast Applications

When applied as directed under the conditions described this product will control the weeds listed below when water carrier volumes are 10 to 40 gallons per acre for ground applications

Apply 1 to 1.5 quarts of this product per acre plus 0.5 to 1% nonionic surfactant by total spray volume. Use 1 quart per acre if weeds are less than 6 inches tall and 1.5 quarts per acre if weeds are over 6 inches tall. If weeds have been mowed, grazed, or cut, allow adequate time for new growth to reach specified stages prior to treatment. These rates will also provide control of weeds listed in the Low Volume Broadcast Application section.

Weed Species

Balsamapple*	<i>Momordica charantia</i>	Panicum	<i>Panicum spp</i>
Bassia fivehook	<i>Bassia hyssopifolia</i>	Ragweed common	<i>Ambrosia artemisiifolia</i>
Brome	<i>Bromus spp</i>	Ragweed giant	<i>Ambrosia trifida</i>
Fiddleneck	<i>Amsinckia spp</i>	Smartweed Pennsylvania	<i>Polygonum pennsylvanicum</i>
Fleabane hairy	<i>Conyza bonariensis</i>	Sowthistle annual	<i>Sonchus oleraceus</i>
Fleabane	<i>Erigeron spp</i>	Sunflower	<i>Helianthus annuus</i>
Kochia	<i>Kochia scoparia</i>	Thistle Russian	<i>Salsola kali</i>
Lettuce prickly	<i>Lactuca serriola</i>	Velvetleaf	<i>Abutilon theophrasti</i>

* Apply with hand held equipment only

8² Perennial Weeds

Apply this product as follows to control or destroy most 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.

The addition of 1 to 2% dry ammonium sulfate by weight or 8.5 to 17 pounds per 100 gallons of water may increase the performance of this product on perennial weeds. The improvement in performance may be apparent where environmental stress is a concern. Refer to the MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS section of this label.

When applied as specified under the conditions described, this product WILL CONTROL the following perennial weeds (see additional notes by weed species below this listing)

Alfalfa	<i>Medicago sativa</i>	Lantana	<i>Lantana camara</i>
Alligatorweed*	<i>Alternanthera philoxeroides</i>	Lespedeza	<i>Lespedeza spp</i>
Anise (fennel)	<i>Foeniculum vulgare</i>	Milkweed	<i>Asclepias spp</i>
Artichoke Jerusalem	<i>Helianthus tuberosus</i>	Muhly wirestem	<i>Muhlenbergia frondosa</i>
Bahiagrass	<i>Paspalum notatum</i>	Mullein common	<i>Verbascum thapsus</i>
Bentgrass	<i>Agrostis spp</i>	Napiergrass	<i>Pennisetum purpureum</i>
Bermuda grass	<i>Cynodon dactylon</i>	Nightshade silverleaf	<i>Solanum elaeagnifolium</i>
Bermuda grass water (Knotgrass)	<i>Paspalum distichum</i>	Nutsedge purple yellow	<i>Cyperus rotundus</i>
Bindweed field	<i>Convolvulus arvensis</i>	Orchardgrass	<i>Cyperus esculentus</i>
Bluegrass Kentucky	<i>Poa pratensis</i>	Pampasgrass	<i>Dactylis glomerata</i>
Blueweed Texas	<i>Helianthus ciliaris</i>	Phragmites*	<i>Cortaderia spp</i>
Brackenfern	<i>Pteridium aquilinum</i>	Poison hemlock	<i>Brachiaria mutica</i>
Bromegrass smooth	<i>Bromus inermis</i>	Quackgrass	<i>Phragmites spp</i>
Bursage woollyleaf	<i>Franseria tomentosa</i>	Redvine*	<i>Conium maculatum</i>
Canarygrass reed	<i>Phalaris arundinacea</i>	Reed giant	<i>Elytrigia repens</i>
Cattail	<i>Typha spp</i>	Ryegrass perennial	<i>Brunnichia ovata</i>
Clover red	<i>Trifolium pratense</i>	Smartweed swamp	<i>Arundo donax</i>
Clover white	<i>Trifolium repens</i>	Spurge leafy*	<i>Lolium perenne</i>
Cogongrass	<i>Imperata cylindrica</i>	Starthistle yellow	<i>Polygonum coccineum</i>
Dallisgrass	<i>Paspalum dilatatum</i>	Sweet potato wild*	<i>Euphorbia esula</i>
Dandelion	<i>Taraxacum officinale</i>	Thistle Canada	<i>Centaurea solstitialis</i>
Dock curly	<i>Rumex crispus</i>	Thistle artichoke	<i>Ipomoea pandurata</i>
Dogbane hemp	<i>Apocynum cannabinum</i>	Timothy	<i>Cirsium arvense</i>
Fescues	<i>Festuca spp</i>	Torpedograss*	<i>Cynara cardunculus</i>
Fescue tall	<i>Festuca arundinacea</i>	Trumpet creeper*	<i>Phleum pratense</i>
Guineagrass	<i>Panicum maximum</i>	Vaseygrass	<i>Panicum repens</i>
Horsenettle	<i>Solanum carolinense</i>	Velvetgrass	<i>Campsis radicans</i>
Horseradish	<i>Armoracia rusticana</i>	Wheatgrass western	<i>Paspalum urvillei</i>
Ice Plant	<i>Mesembryanthemum crystallinum</i>		<i>Holcus spp</i>
Johnsongrass	<i>Sorghum halepense</i>		<i>Agropyron smithii</i>
Kikuyugrass	<i>Pennisetum clandestinum</i>		
Knapweed	<i>Centaurea repens</i>		

* Partial control

THIS PRODUCT IS NOT REGISTERED IN CALIFORNIA FOR USE IN WATER BERMUDA GRASS

See DIRECTIONS FOR USE and MIXING ADDITIVES AND APPLICATION INSTRUCTIONS sections of this label for labeled uses and specific application instructions

Alfalfa Apply 1 quart of this product per acre plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Make application 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. Applications should be followed with deep tillage at least 7 days after treatment but before soil freeze up.

Alligatorweed Apply 4 quarts of this product per acre or apply a 1.5% solution with hand held equipment to provide partial control. Apply when most of the plants are in bloom. Repeat applications will be required to maintain such control.

Anise (fennel) / poison hemlock Apply a 1 to 2% solution of this product as a spray to wet treatment. Optimum results are obtained when plants are treated at the bud to full bloom stage of growth. Repeat applications may be needed in succeeding years to control plants arising from seeds.

Bentgrass For suppression in grass seed production areas. For ground applications only, apply 1.5 quarts of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 10 to 20 gallons of water per acre. Ensure entire crown area has resumed growth prior to a fall application. Bentgrass should be actively growing and have at least 3

inches of growth Tillage prior to treatment should be avoided Tillage 7 to 10 days after application is specified for best results Failure to use tillage after treatment may result in unacceptable control

Bermuda grass For control apply 5 quarts of this product per acre For partial control apply 3 quarts per acre Treat when Bermuda grass is actively growing and seedheads are present Retreatment may be necessary to maintain control Allow 7 or more days after application before tillage

Bermuda grass water (knotgrass) Apply 1.5 quarts of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 5 to 10 gallons of water per acre Apply when water Bermuda grass is actively growing and 12 to 18 inches in length Allow 7 or more days before tilling flushing or flooding the field Fall applications only Apply 1 quart of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 5 to 10 gallons of water per acre Fallow fields should be tilled prior to application Apply prior to frost on water Bermuda grass that is actively growing and 12 to 18 inches in length Allow 7 or more days before tillage

Bindweed field For control apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts east of the Mississippi River Apply when the weeds are actively growing and are at or beyond full bloom Do not treat when weed is under drought stress as good soil moisture is necessary for active growth For best results apply in late summer or fall Fall treatments must be applied before a killing frost Allow 7 or more days after application before tillage Also for control apply 2 quarts of this product plus 0.5 pound active ingredient of dicamba in 10 to 20 gallons of water per acre At these rates apply using ground application only

The following tank mixtures with 2.4 D may be applied using aerial application equipment (except in California) in fallow and reduced tillage systems only

For suppression on irrigated agricultural land apply 1 to 2 quarts of this product plus 1 pound active ingredient of 2.4 D in 10 to 20 gallons of water per acre with ground equipment only Applications should be made following harvest or in fall fallow ground when the bindweed is actively growing and the majority of runners are 12 inches or more in length The use of at least one irrigation will promote active bindweed growth For suppression apply 16 fl oz of this product plus 0.5 pound active ingredient of 2.4 D plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications Applications should be delayed until maximum emergence has occurred and when vines are between 6 to 18 inches in length

In California only apply 1 to 5 quarts of this product per acre Actual rate needed for suppression or control will vary within this range depending on local conditions

For suppression on irrigated land where annual tillage is performed apply 1 quart of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre Apply to actively growing bindweed that has reached a length of 12 inches or greater Allow maximum weed emergence and runner growth Do not treat when weeds are under drought stress as good soil moisture is necessary for active growth Allow 3 or more days after application before tillage

Bluegrass Kentucky / bromegrass smooth / orchardgrass Apply 2 quarts of this product in 10 to 40 gallons of water per acre when the grasses are actively growing and most plants have reached boot to early seedhead stage of development For partial control in pasture or hay crop renovation apply 1 to 1.5 quarts of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre Apply to actively growing plants when most have reached 4 to 12 inches in height Allow 7 or more days after application before tillage

Orchardgrass (sods going to no till corn) Apply 1 to 1.5 quarts of this product per acre plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre Apply to orchardgrass that is a minimum of 12 inches tall for spring applications and 6 inches tall for fall applications Allow at least 3 days following application before planting A sequential application of atrazine will be necessary for optimum results

Blueweed Texas Apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts east of the Mississippi River Apply when weed is actively growing and is at or beyond full bloom Do not treat when weed is under drought stress as good soil moisture is necessary for active growth New leaf development indicates active growth For best results apply in late summer or fall Fall treatments must be applied before a killing frost Allow 7 or more days after application before tillage

Brackenfern Apply 3 to 4 quarts of this product per acre as a broadcast spray or as a 1 to 1.5% solution with hand held

equipment Apply to fully expanded fronds that are at least 18 inches long

Bursage woollyleaf For control apply 2 quarts of this product plus 1 pint of dicamba per acre For partial control apply 1 quart of this product plus 1 pint of dicamba per acre Add 0.5 to 1% nonionic surfactant by total spray volume and apply in 3 to 20 gallons of water per acre Apply when plants are producing new active growth that has been initiated by moisture for at least 2 weeks and when plants are at or beyond flowering

Canarygrass reed / timothy / wheatgrass western Apply 2 to 3 quarts of this product per acre For best results apply to actively growing plants when most have reached the boot to head stage of growth Allow 7 or more days after application before tillage

Cogongrass Apply 3 to 5 quarts of this product plus 0.5 to 1% nonionic surfactant in 10 to 40 gallons of water per acre Apply when cogongrass is at least 18 inches tall and actively growing in late summer or fall Allow 7 or more days after application before tillage or mowing Due to uneven stages of growth and the dense nature of vegetation preventing good spray coverage repeat treatments may be necessary to maintain control

Dandelion / dock curly Apply 3 to 5 quarts of this product per acre when plants are actively growing and most have reached early bud stage of growth Allow 7 or more days after application before tillage Also for control apply 16 fl oz of this product plus 0.5 pound active ingredient 2,4-D plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre

Dogbane hemp Apply 4 quarts of this product per acre Apply when actively growing and when most weeds 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 Allow 7 or more days after application before tillage

For suppression apply 16 fl oz of this product plus 0.5 pound active ingredient 2,4-D plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications Delay applications until maximum emergence of dogbane has occurred

Fescue tall Apply 3 quarts of this product in 10 to 40 gallons of water per acre to actively growing plants when most have reached boot to early seedhead stage of development

Fall applications only Apply 1 quart of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre Apply to fescue in the fall when actively growing and plants have 6 to 12 inches of new growth Allow 7 or more days after application before tillage A sequential application of 1 pint per acre of this product plus nonionic surfactant will improve long term control and control seedlings germinating and emerged after fall treatments or the following spring

Guineagrass Apply 3 quarts of this product per acre or use a 1/4 solution with hand held equipment Apply to actively growing guineagrass when most has reached at least the 7 leaf stage of growth Ensure thorough coverage when using hand held equipment Allow 7 or more days after application before tillage

Johnsongrass / ryegrass perennial Apply 1 to 3 quarts of this product per acre In annual cropping systems apply 1 to 2 quarts of this product per acre Apply 1 quart of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre Use 2 quarts of this product when applying 10 to 40 gallons of water per acre In noncrop or areas where annual tillage (no till) is not performed apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre For best results apply to actively growing plants when most have reached the boot to head stage of growth or in the fall prior to frost Allow 7 or more days after application before tillage Do not tank mix with residual herbicides when using the 1 quart per acre rate

For burndown of Johnsongrass Apply 1 pint per acre plus 0.5 to 1% nonionic surfactant in 3 to 10 gallons of water per acre before the plants reach a height of 12 inches For this use allow at least 3 days after treatment before tillage For spot treatment (partial control or suppression) Apply a 1% solution of this product plus 0.5 to 1% nonionic surfactant by total spray volume when Johnsongrass is 12 to 18 inches in height Coverage should be uniform and complete

Kikuyugrass Apply 2 to 3 quarts of this product per acre Spray when most kikuyugrass is at least 8 inches in height (3 or 4 leaf stage of growth) and actively growing Allow 3 or more days after application before tillage

Knapweed / horseradish Apply 4 quarts of this product per acre Apply when actively growing and when most weeds 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 Allow 7 or more days after application before tillage

Lantana Apply this product as a 1 to 1.25% solution using hand held equipment only Apply to actively growing lantana at or beyond the bloom stage of growth Use the higher application rate for plants that have reached the woody stage of growth Allow 7 or more days after application before tillage

Milkweed common Apply 3 quarts of this product per acre Apply when actively growing and most of the milkweed has reached the late bud to flower stage of growth Following small grain harvest or mowing allow milkweed to regrow to a mature stage prior to treatment Allow 7 or more days after application before tillage

Muhly wirestem Apply 1 to 2 quarts of this product per acre Use 1 quart of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre Use 2 quarts of this product when applying 10 to 40 gallons of water per acre or in pasture sod or noncrop areas Spray when wirestem muhly is 8 inches or more in height and actively growing Do not till between harvest and fall applications or in the fall or spring prior to spring applications Allow 3 or more days after application before tillage This product will not provide residual control of wirestem muhly from seeds that germinate after application of this product Do not tank mix with residual herbicides when using the 1 quart per acre rate

Nightshade silverleaf For control apply 2 quarts of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre Applications should be made when at least 60% of the plants have berries Fall treatments must be applied before a killing frost Allow 7 or more days after application before tillage Do not treat when weed is under drought stress as good soil moisture is necessary for active growth

Nutsedge purple yellow Apply 3 quarts of this product per acre as a broadcast spray or apply a 1 to 2% solution from hand held equipment to control existing nutsedge plants and immature nutlets attached to treated plants Treat when plants are in flower or when new nutlets can be found at rhizome tips Nutlets that have not germinated will not be controlled and may germinate following treatment Repeat treatments will be required for long term control of ungerminated nutlets Sequential applications of 1 to 2 quarts of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre will 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 suppression to partial control of existing plants apply 1 pint to 2 quarts of this product per acre plus 0.5 to 1% nonionic surfactant in 3 to 40 gallons of water per acre Treat when plants have 3 to 5 leaves and most are less than 6 inches tall Repeat treatments will be required to control subsequent emerging plants or regrowth of existing plants Wait 7 days after treatment before tillage or mowing

Pampasgrass / ice plant Apply this product as a 1.5 to 2% solution using hand held equipment Apply to plants that are actively growing Pampasgrass should be at or beyond the boot stage of growth Thorough coverage is necessary for best control

Phragmites For partial control of phragmites in Florida and the counties of other states bordering the Gulf of Mexico apply 5 quarts per acre as a broadcast spray or apply as a 2% solution from hand held equipment For partial control in other areas of the U.S. apply 3 quarts per acre as a broadcast spray or apply a 1% solution from hand held equipment 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 uneven stages of growth or the dense nature of the vegetation which may prevent good spray coverage repeat treatments may be necessary to maintain control Visible symptoms of control will be slow to develop

Quackgrass In annual cropping systems or in pastures and sods followed by deep tillage Apply 1 to 2 quarts of this product per acre For the 1 quart rate apply 0.5 to 1% nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre For the 2 quart rate apply in 10 to 40 gallons of water per acre Do not tank mix with residual herbicides when using the 1 quart rate Spray when quackgrass is 6 to 8 inches in height and actively growing Do not till between harvest and fall applications or in fall or spring prior to spring application Allow 3 or more days after application before

tillage In pastures or sods for best results use a moldboard plow

Quackgrass In pasture or sod or other noncrop areas where deep tillage is not planned following application Apply 2 to 3 quarts in 10 to 40 gallons of water per acre Spray when the quackgrass is greater than 8 inches tall and actively growing Do not till between harvest and fall application or in fall or spring prior to spring application Allow 3 or more days after application before tillage

Redvine For suppression apply 24 fl oz of this product per acre at each of two applications 7 to 14 days apart or a single application of 2 quarts per acre Apply specified rates in 5 to 10 gallons of water per acre plus 0.5 to 1% nonionic surfactant by total volume Apply in late September or early October to actively growing plants which 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 For control of giant reed apply a 2% solution of this product when plants are actively growing Best results are obtained when applications are made in late summer to fall

Smartweed swamp Apply 3 to 5 quarts of this product per acre when plants are actively growing and most have reached the early bud stage of growth Allow 7 or more days after application before tillage Also for control apply 16 fl oz of this product plus 0.5 pound active ingredient of 2,4-D plus 0.5 to 1% nonionic surfactant by total volume in 3 to 10 gallons of water per acre in the late summer or fall Apply when plants are actively growing and most have reached the early bud stage of growth Allow 7 or more days after application before tillage

Spurge leafy For suppression apply 16 fl oz of this product plus 0.5 pound active ingredient 2,4-D plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre in the late summer or fall Apply when plants are actively growing If mowing has occurred prior to treatment apply when most of the plants are 12 inches tall Allow 7 or more days after application before tillage

Starthistle yellow Best results are obtained when applications are made during periods of active growth including the rosette bolting and early flower stages For spray to wet applications apply this product as a 2% solution For broadcast applications apply 2 quarts per acre in 10 to 40 gallons per acre of water carrier

Sweet potato wild / thistle artichoke Apply this product as a 2% solution using hand held equipment Apply to actively growing weeds that are at or beyond the bloom stage of growth Repeat applications will be required Allow the plant to reach the specified stage of growth before retreatment Allow 7 or more days before tillage

Thistle Canada Apply 2 to 3 quarts of this product per acre Apply to actively growing thistles when most are at or beyond the bud stage of growth After harvest mowing or tillage in the late summer or fall allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product Fall treatments must be applied before a killing frost Allow 3 or more days after application before tillage

For suppression of Canada thistle apply 1 quart per acre of this product or 1 pint of this product plus 0.5 pound active ingredient 2,4-D per acre plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre in the late summer or fall after harvest mowing or tillage Allow rosette regrowth to a minimum of 6 inches in diameter before treating Applications can be made as long as leaves are still green and plants are actively growing at the time of application Allow 3 or more days after application before tillage

Torpedograss Apply 4 to 5 quarts of this product per acre to provide partial control of torpedograss Apply to actively growing torpedograss 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 Allow 7 or more days after application before tillage

Trumpet creeper For control apply 2 quarts of this product per acre in 5 to 10 gallons of water per acre Apply to actively growing plants in late September and October which 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 killing frost

Other perennials listed on this label Apply 3 to 5 quarts of this product per acre Apply when actively growing and most have reached the early head to early bud stage of growth Allow 7 or more days after application before tillage

9⁰ WOODY BRUSH AND TREES

When applied as specified under the conditions described this product CONTROLS or PARTIALLY CONTROLS the following woody brush plants and trees

Alder	<i>Alnus spp</i>	Maple	
Ash*	<i>Fraxinus spp</i>	red**	<i>Acer rubrum</i>
Aspen quaking	<i>Populus tremuloides</i>	sugar	<i>Acer saccharum</i>
Bearmat	<i>Chamaebatia foliolosa</i>	vine*	<i>Acer circinatum</i>
(Bearclover)	<i>Fagus grandifolia</i>	Monkey flower*	<i>Mimulus guttatus</i>
Beech	<i>Betula spp</i>	Oak	
Birch	<i>Rubus spp</i>	black*	<i>Quercus velutina</i>
Blackberry	<i>Nyssa spp</i>	northern pin	<i>Quercus palustris</i>
Blackgum	<i>Peridium spp</i>	post	<i>Quercus stellata</i>
Bracken	<i>Cytisus monspessulanus</i>	red	<i>Quercus rubra</i>
Broom French	<i>Cytisus scoparius</i>	southern red	<i>Quercus falcata</i>
Scotch	<i>Eriogonum fasciculatum</i>	white*	<i>Quercus alba</i>
Buckwheat	<i>Rhamnus purshiana</i>	Persimmon*	<i>Diospyros spp</i>
California*	<i>Acacia greggi</i>	Pine	<i>Pinus spp</i>
Cascara*	<i>Ceanothus spp</i>	Poison ivy	<i>Rhus radicans</i>
Catsclaw*	<i>Adenostoma fasciculatum</i>	Poison oak	<i>Rhus toxicodendron</i>
Ceanothus*		Poplar yellow* (tulip tree)	<i>Liriodendron tulipifera</i>
Chamise	<i>Prunus emarginata</i>	Raspberry	<i>Rubus spp</i>
Cherry	<i>Prunus serotina</i>	Redbud eastern	<i>Cercis canadensis</i>
bitter	<i>Prunus pennsylvanica</i>	Rose multiflora	<i>Rosa multiflora</i>
black	<i>Baccharis consanguinea</i>	Russian olive	<i>Elaeagnus</i>
pin	<i>Parthenocissus quinquefolia</i>	Sage black white	<i>angustifolia</i>
Coyote brush	<i>Rubus trivialis</i>	Sagebrush California	<i>Salvia spp</i>
Creeper Virginia*	<i>Cornus spp</i>	Salmonberry	<i>Artemisia californica</i>
Dewberry	<i>Sambucus spp</i>	Saltcedar	<i>Rubus spectabilis</i>
Dogwood*	<i>Ulmus spp</i>	Sassafras	<i>Tamarix spp</i>
Elderberry	<i>Eucalyptus spp</i>	Sourwood	<i>Sassafras albidum</i>
Elm*	<i>Ulex europaeus</i>	Sumac	<i>Oxydendrum</i>
Eucalyptus	<i>Haplopappus squamosus</i>	poison*	<i>arboreum</i>
Gorse	<i>Crataegus spp</i>	smooth*	
Hasardia*	<i>Carylus spp</i>	winged*	<i>Rhus vernix</i>
Hawthorn	<i>Carya spp</i>	Sweetgum	<i>Rhus glabra</i>
Hazel	<i>Schinus terebinthifolius</i>	Swordfern*	<i>Rhus copallina</i>
Hickory*		Tallowtree Chinese	<i>Liquidambar</i>
Holly Florida /	<i>Lonicera spp</i>	Tanoak	<i>styraciflua</i>
Brazilian	<i>Carpinus caroliniana</i>	Thimbleberry	<i>Polystichum munitum</i>
peppertree*	<i>Pueraria lobata</i>	Tobacco tree*	<i>Sapium sebiferum</i>
Honeysuckle	<i>Robimia pseudoacacia</i>	Trumpet creeper	<i>Lithocarpus</i>
Hornbeam	<i>Arbutus menziesii</i>	Waxmyrtle southern*	<i>densiflorus</i>
American*	<i>Arctostaphylos spp</i>	Willow	<i>Rubus parviflorus</i>
Kudzu			<i>Nicotiana glauca</i>
Locust black*			<i>Campsis radicans</i>
Madrone			<i>Myrica cerifera</i>
Manzanita			<i>Salix spp</i>

*Partial control ** See below for control or partial control instructions

NOTE If brush has been mowed or tilled or trees have been cut do not treat until regrowth has reached the specified stages of growth

Apply this product when plants are actively growing and unless otherwise directed after full leaf expansion 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 the late summer or fall after fruit formation In arid areas best results are obtained when application is made in the spring to early summer when brush species are at high moisture content and are flowering

Ensure thorough coverage when using hand held equipment Symptoms may not appear prior to frost or senescence with fall treatments

Allow 7 or more days after application before tillage mowing or removal Repeat treatments may be necessary to control plants regenerating from underground parts or seed Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred Reduced performance may result if fall treatments are made following a frost See DIRECTIONS FOR USE and MIXING ADDITIVES and APPLICATION INSTRUCTIONS sections of this label for labeled uses and specific application instructions

Apply this product as follows to control or partially control the following woody brush and trees

Alder / dewberry / honeysuckle / post oak / raspberry For control apply 3 to 4 quarts per acre of this product as a broadcast spray or as a 1 to 1.5% solution with hand held equipment

Aspen quaking / cherry bitter black pin / hawthorn / oak southern red / sweetgum / trumpet creeper For control apply 2 to 3 quarts of this product per acre as a broadcast spray or as a 1 to 1.5% solution with hand held equipment

Birch / elderberry / hazel / salmonberry / thimbleberry For control apply 2 quarts per acre of this product as a broadcast spray or as a 1% solution with hand held equipment

Blackberry For control apply 3 to 4 quarts per acre of this product as a broadcast spray or 1 to 1.5% solution with hand held equipment Make application after plants have reached full leaf maturity Best results are obtained when applications are made in the late summer or fall After berries have set or dropped in late fall blackberry can be controlled by applying a 0.75% solution of this product plus 0.5 to 1% nonionic surfactant by total spray volume with hand held equipment For control of blackberries after leaf drop and until killing frost or as long as stems are green apply 3 to 4 quarts of this product in 10 to 40 gallons of water per acre

Broom French Scotch For control apply a 1.5 to 2% solution with hand held equipment

Buckwheat California / hasardia / monkey flower / tobacco tree For partial control of these species apply a 1 to 2% solution of this product as a foliar spray with hand held equipment Thorough coverage of foliage is necessary for best results

Catsclaw For partial control apply a 1 to 1.5% solution with hand held equipment

Coyote brush For control apply a 1.5 to 2% solution with hand held equipment when at least 50% of the new leaves are fully developed

Eucalyptus For control of eucalyptus resprouts apply a 2% solution with hand held equipment when resprouts are 6 to 12 feet tall Ensure complete coverage Apply when plants are growing actively Avoid application to drought stressed plants

Kudzu For control apply 4 quarts of this product per acre as a broadcast spray or as a 2% solution with hand held equipment Repeat applications will be required to maintain control

Madrone resprouts For suppression or partial control apply a 2% solution of this product to resprouts less than 3 to 6 feet tall Best results are obtained with spring / early summer treatments

Maple red For control apply as a 1 to 1.5% solution with hand held equipment when at least 50% of the new leaves are fully developed For partial control apply 2 to 4 quarts of this product per acre as a broadcast spray

Maple sugar / oak northern pin / oak red For control apply as a 1 to 1.5% solution with hand held equipment when at least 50% of the new leaves are fully developed

Poison ivy / poison oak For control apply 4 to 5 quarts of this product per acre as a broadcast spray or as a 2% solution with hand held equipment Repeat applications may be required to maintain control Fall treatments must be applied before leaves lose green color

Rose multiflora For control apply 2 quarts of this product per acre as a broadcast spray or as a 1% solution with hand held equipment Treatments should be made prior to leaf deterioration by leaf feeding insects

Sage black / sagebrush California / chamise / tallowtree Chinese For control of these species apply a 1% solution of this product as a foliar spray with hand held equipment Thorough coverage of foliage is necessary for best results

Tanoak resprouts For suppression or partial control apply a 2% solution of this product to resprouts less than 3 to 6 feet tall Best results are obtained with fall applications

Willow For control apply 3 quarts of this product per acre as a broadcast spray or as a 1% solution with hand held equipment

Other woody brush and trees listed on this label For partial control apply 2 to 5 quarts of this product per acre as a broadcast spray or as a 1 to 2% solution with hand held equipment

10⁰ CROPPING SYSTEMS

When applied as directed for CROPPING SYSTEMS under the conditions described this product controls annual and perennial weeds listed on this label prior to the emergence of direct seeded crops or prior to transplanting of crops listed on this label

See PRODUCT INFORMATION and MIXING ADDITIVES AND APPLICATION INSTRUCTIONS sections of this label for essential product performance information

See the following CROPPING SYSTEMS sections for specific specified uses

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE GREEN STEMS OR FRUIT OF DESIRABLE CROPS PLANTS TREES OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed

Except as otherwise specified on this label repeat treatments must be made before the crop emerges in accordance with the instructions of this label

Except as otherwise specified in a crop section of this label the combined total of all treatments must not exceed 8 quarts per acre of this product per year The maximum use rates stated throughout this product s labeling apply to this product combined with the use of all other herbicides containing glyphosate or sulfosate as the active ingredient whether applied as mixtures or separately Calculate the application rates and ensure that the total use of this and other glyphosate or sulfosate containing products does not exceed stated maximum use rate

For any crop NOT listed below applications must be made at least 30 days prior to planting

Do not harvest or feed treated vegetation for 8 weeks following application Following spot treatment or selective equipment use allow 14 days before grazing domestic livestock or harvesting forage grasses and legumes

Row Crops		
Corn (all)* Cotton*	Peanuts Sorghum (milo)*	Soybeans* Sugarcane*
Cereal Grains		
Barley* Buckwheat* Millet (pearl proso)*	Oats* Rice** Rye*	Triticale* Wheat (all)* Wild rice*
Citrus		

Calamondin Chironja Citron Grapefruit Kumquat	Lemon Lime Mandarin orange Orange (all)	Pummelo Tangelo Tangerine Tangors
Tree Nuts		
Almond Beechnut Brazil nut Butternut Cashew	Chestnut Chinquapin Filbert (hazelnut) Hickory nut	Macadamia Pecan Pistachio Walnut (black English)
Vine Crops		
Grapes	Kiwi fruit	
Tree Fruits		
Apple Apricot Cherry (sweet sour) Loquat	Mayhaw Nectarine Olive Peach	Pear Plum / prune (all) Quince
Vegetables		
Artichoke Jerusalem Asparagus* Beans (all) Beet greens Beets (red sugar) Broccoli (all) Brussels sprouts Cabbage (all) Cabbage Chinese Cantaloupe*** Carrot Cauliflower Casaba melon*** Celeriac Celery Chard Swiss Chicory Collards Crenshaw melon*** Cucumber***	Eggplant*** Endive Garlic*** Gourds*** Ground cherry*** Honeydew melon*** Honey ball melon*** Horseradish Kale Kohlrabi Leek Lentils Lettuce Mango melon*** Melons (all)*** Muskmelon*** Mustard greens Okra Onion	Parsley Parsnip Peas (all) Pepper (all)*** Persian melon*** Potato (Irish sweet) Pumpkin*** Radish Rape greens (rapini) Rhubarb Rutabaga Shallot Spinach(all) Squash (summer winter)*** Tomatillo*** Tomato*** Turnip Watercress*** Watermelon*** Yams
Small Fruits and Berries		
Blackberry Blueberry Boysenberry Cranberry	Currant Dewberry Elderberry Gooseberry	Huckleberry Loganberry Ollaliberry Raspberry (black red)
Forage Crops and Legumes		
Alfalfa*	Forage grasses*	Forage legumes*

Tropical Crops		
Acerola	Figs	Persimmons
Atemoya	Genip	Pineapple***
Avocado	Guava	Plantains
Banana	Jaboticaba	Pomegranate
Breadfruit	Jackfruit	Sopadilla
Canistel	Longan	Sapote (black mamey white)
Carambola	Lychee	Soursop
Cherimoya	Mango	Sugarapple
Cocoa beans	Papaya	Tamarind
Coffee	Passion fruit	Tea
Dates		

*Spot treatments may be applied in these crops

**Do not treat rice fields or levees when the fields contain flood water

***Apply only prior to planting Allow at least 3 days between application and planting

****Do not feed or graze treated pineapple forage following application

Use is restricted to direct seeded crops only

When applying this product prior to transplanting crops into plastic mulch care must be taken 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 via a sprinkler irrigation system Applications made at emergence will result in injury or death to emerged seedlings

Spot treatment (Only those crops with * can be spot treated) Applications in growing crops must be made prior to heading of small grains and milo initial pod set in soybeans silking of corn or boll opening on cotton

For forage grasses and forage legumes see Spot treatment in the PASTURES section of CROPPING SYSTEMS in this label

For dilution and rates of application using boom or hand held equipment see MIXING ADDITIVES AND APPLICATION INSTRUCTIONS and WEEDS CONTROLLED sections of this label

NOTE FOR SPOT TREATMENT IN FORAGE GRASSES AND FORAGE LEGUMES NO MORE THAN ONE TENTH OF ANY ACRE SHOULD BE TREATED AT ONE TIME FOR ALL OTHER CROPS DO NOT SPOT TREAT MORE THAN 10% OF THE TOTAL FIELD AREA TO BE HARVESTED THE CROP RECEIVING SPRAY IN TREATED AREA WILL BE KILLED TAKE CARE TO AVOID DRIFT OR SPRAY OUTSIDE TARGET AREA FOR THE SAME REASON

Selective equipment This product may be applied through recirculating sprayers shielded applicators or wiper applicators in cotton and soybeans Shielded and wiper applicators may also be used in tree crops and grapes Wiper applicators may be used in wheat rutabagas forage grasses and forage legumes including pasture sites and grain sorghum (milo)

See the SELECTIVE EQUIPMENT part of the APPLICATION EQUIPMENT AND TECHNIQUES section of this label for information on proper use and calibration of this equipment

Allow at least the following time intervals between application and harvest

Cotton soybeans	7 days
Apples citrus pear	1 day

Atemoya avocado breadfruit canistel carambola cherry dates grapes jaboticaba jackfruit longan lychee passion fruit persimmons rutabagas sapodilla sapote soursoap sugarapple tamarind	14 days
Stone fruit	17 days
Nut crops	3 days
Wheat ¹	35 days
Sorghum (milo) ^{1,2}	40 days

¹Do not use roller applicators

²Do not feed or graze treated milo fodder Do not ensile treated vegetation

11⁰ ASPARAGUS

When applied as directed for CROPPING SYSTEMS under the conditions described this product controls weeds listed on this label in asparagus

For specific rates of applications and instructions for control of various annual and perennial weeds see the WEEDS CONTROLLED section of this label

Prior to crop emergence Apply this product prior to crop emergence for the control of the emerged labeled annual and perennial weeds DO NOT APPLY WITHIN A WEEK BEFORE THE FIRST SPEARS EMERGE

Spot treatment Apply this product immediately after cutting but prior to the emergence of new spears Do not treat more than 10% of the total field area to be harvested Do not harvest within 5 days of treatment

Postharvest Apply this product after the last harvest and all spears have been removed If spears are allowed to regrow delay application until ferns have developed Delayed treatments should be applied as directed or shielded spray in order to avoid contact of the spray with ferns stems or spears Direct contact of the spray with the asparagus may result in serious crop injury

NOTE Select and use specified types of spray equipment for post emergence postharvest applications A directed spray is any application where the spray pattern is aligned in such a way as to avoid direct contact of the spray with the crop A shielded spray is any application where a physical barrier is positioned and maintained between the spray and the crop to prevent contact of spray with the crop

12⁰ BERRIES AND SMALL FRUITS

Wiper applicators may be used in cranberries in accordance with instructions in this section

For other berries apply as a preplant broadcast application or as a directed spray or wiper application post planting

See PRODUCT INFORMATION and MIXING ADDITIVES AND APPLICATION INSTRUCTIONS sections of this label for essential product performance information

See the SELECTIVE EQUIPMENT part of APPLICATION EQUIPMENT AND TECHNIQUES section of this label for information on specified uses and calibration of this equipment

Allow a minimum of 30 days between last application and harvest of cranberries

For other small fruits and berries allow a minimum of 14 days between last application and harvest

For wick or other wiper applicators Mix 1 gallon of this product in 4 gallons of water to prepare a 20% solution In severe infestations reduce equipment ground speed to ensure that adequate amounts of this product are wiped on the weeds A second treatment in the opposite direction may be beneficial

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

13⁰ CORN

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.

A hooded sprayer is a type of shielded applicator. The spray pattern is completely enclosed on the top and all 4 sides by a hood, thereby shielding the crop from the spray solution. This equipment must be set up and operated in a manner that avoids bouncing or raising the hoods off the ground in any way. 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. Tractor speed must be adjusted to avoid bouncing of the spray hoods. Avoid operation on rough or sloping ground where the spray hoods might be raised off the ground.

When applying to corn that is grown on raised beds, ensure that the hood is designed to completely enclose the spray solution. If necessary, extend the front and rear flaps of the hoods to reach the ground in deep furrows.

Follow these requirements:

- The spray hoods must be operated on the ground or skimming across the ground.
- Do not apply more than 1 quart of this product per acre per application.
- Corn must be at least 12 inches tall, measured without extending leaves.
- 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 should be 30 inches.
- Maximum tractor speed: 5 mph
- Maximum wind speed: 10 mph
- Use low drift nozzles.

Crop injury may occur when the foliage of treated weeds comes 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 weeds to be treated. Droplets, mist, foam or splatter of the herbicide solution may contact the crop and cause discoloration, stunting or destruction.

Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage. Such damage shall be the sole responsibility of the applicator.

For specific rates of application and instructions for control of various annual and perennial weeds, see the WEEDS CONTROLLED section of this label.

Do not graze or feed corn forage or fodder following applications of this product through hooded sprayers.

Do not apply more than 3 quarts of this product per acre per year for hooded sprayer applications.

13¹ Fallow And Reduced Tillage Systems

FOR AERIAL APPLICATION IN CALIFORNIA REFER TO THE FOR AERIAL APPLICATION IN CALIFORNIA ONLY AND FOR AERIAL APPLICATION IN FRESNO COUNTY CALIFORNIA ONLY SECTIONS OF THIS LABEL

Use this product in fallow and reduced tillage systems for control of annual weeds prior to emergence of crops listed in this label. Refer to the WEEDS CONTROLLED section of this label for specific rates and instructions. This product may be applied using ground or aerial spray equipment. See the APPLICATION EQUIPMENT AND TECHNIQUES section of this label for instructions.

13² Tank Mixtures

HELOSATE PLUS ADVANCED plus dicamba plus nonionic surfactant
HELOSATE PLUS ADVANCED plus 2,4-D plus nonionic surfactant

DO NOT APPLY DICAMBA OR 2,4-D TANK MIXTURES BY AIR IN CALIFORNIA

Applications of 2,4-D or dicamba must be made at least 7 days prior to planting corn.

The addition of dicamba in a mixture with this product may provide short term residual control of selected weed species. Some crop injury may occur if dicamba is applied within 45 days of planting. Refer to the dicamba and 2,4-D labels for cropping restrictions and other use instructions.

HELOSATE PLUS ADVANCED plus Goal™ plus Nonionic Surfactant

This product alone or in tank mixtures with Goal plus 0.5 to 1% nonionic surfactant by total spray volume will provide control of the weeds listed below.

Make applications when weeds are actively growing and at the specified stages of growth. Avoid spraying when weeds are subject to moisture stress when dust is on the foliage or when straw canopy covers the weeds.

HELOSATE PLUS ADVANCED @ 12 fl

oz / acre	18 *
Wheat	12
Barley	6
Bluegrass annual	6
Barnyardgrass	6
Rye	

HELOSATE PLUS ADVANCED @ 16 fl

oz / acre	
Annual grasses at leaf plus	6
Ryegrass annual	6
Chickweed	6
Groundsel	6
Marestail	6
Rocket London	6
Shepherd's purse	12
Crabgrass	12
Johnsongrass seedling	12
Lamb's quarters	12
Oats wild	12
Pigweed redroot	12
Mustards	

*Maximum height or length in inches

NOTE Use 32 fl oz of this product per acre where heavy densities exist

HELOSATE PLUS ADVANCED @ 12 fl oz / acre		HELOSATE PLUS ADVANCED @ 16 fl oz / acre	
+		+	
Goal** 2 to 4 fl oz / acre		Goal** 2 to 4 fl oz / acre	
Annual grasses above plus		Annual weeds above plus	
Cheeseweed common	3	Cheeseweed common	6
Chickweed	3	Groundsel	6
Groundsel	3	Chickweed	12
Rocket London	6	Rocket London	12
Shepherd s purse	6	Shepherd s purse	12

NOTE Use 32 fl oz of this product per acre in mixtures with 2 to 4 fl oz of Goal per acre where heavy weed densities exist

**Use the higher rate of Goal when weeds approach maximum specified height or stands are dense

These specified tank mixtures may be applied using ground or aerial spray equipment Refer to the WEEDS CONTROLLED section of this label for specific rates and instructions

Ecofarming Systems

THE DIRECTIONS PROVIDED IN THIS SECTION ARE NOT REGISTERED FOR USE IN CALIFORNIA

The Ecofarming System consists of the following rotation winter wheat corn / sorghum ecofallow

Use the following tank mixtures for control of emerged annual weeds before planting corn or sorghum in the Ecofarming System

HELOSATE PLUS ADVANCED at 16 to 20 fl oz per acre

plus

2 4 D at 0 375 to 0 5 pound active ingredient per acre

plus

Atrazine at 0 75 to 1 pound active ingredient per acre

plus

Lasso® at 2 5 to 3 quarts per acre

The above tank mixture should be applied in 28 0 0 or 32 0 0 liquid fertilizer carrier at 20 to 30 gallons per acre The liquid fertilizer may be diluted with water to achieve the desired carrier volume

Weeds controlled The following weeds up to a maximum height of 4 inches will be controlled

Brome downy	<i>Bromus tectorum</i>	Lettuce prickly	<i>Lactuca serriola</i>
Cheat	<i>Bromus secalinus</i>	Pigweed redroot	<i>Amaranthus retroflexus</i>
Foxtail green	<i>Setaria viridis</i>	Thistle Russian	<i>Salsola kali</i>
Foxtail yellow	<i>Setaria lutescens</i>	Wheat volunteer	<i>Triticum aestivum</i>
Kochia*	<i>Kochia scoparia</i>		

*For improved control of kochia add 4 fl oz per acre (0 125 pound active ingredient per acre) of dicamba to the above tank mixture

Risk of crop injury from 2,4-D or dicamba can be reduced by applying this treatment 7 to 14 days before planting. Refer to the label booklet for Lasso herbicide for pre-emergence weed control achieved by this tank mixture. Refer to the specific product labels for crop rotation restrictions and cautionary statements for all products used in these tank mixtures.

13³ Aid to Tillage

This product when used in conjunction with preplant tillage practices will provide control of downy brome, cheat, volunteer wheat, tansy mustard, and foxtail. Apply 8 fl oz of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Make applications when weeds are actively growing and before they are 6 inches in height. Application must be followed by conventional tillage practices no later than 15 days after treatment and before regrowth occurs. Allow at least 1 day after application before tillage. Tank mixtures with residual herbicides may result in reduced performance.

14⁰ POSTHARVEST GRAIN SORGHUM, SORGHUM REGROWTH CONTROL

This product may be applied to grain sorghum (milo) stubble following harvest to suppress or control regrowth. Apply 1 quart of this product per acre for control or 1.5 pints of this product per acre for suppression. Use 0.5% nonionic surfactant in 3 to 10 gallons of spray solution per acre.

15⁰ PASTURES

Apply this product prior to planting forage grasses and legumes.

Pasture or hay crop renovation When applied as a broadcast spray, this product controls the annual and perennial weeds listed in this label prior to planting forage grasses or legumes. Remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting.

Spot treatment When applied as a spot treatment as directed, this product controls annual and perennial weeds listed in this label which are growing in pastures, forage grasses, and forage legumes composed of bahiagrass, Bermuda grass, bluegrass, brome, fescue, orchardgrass, ryegrass, timothy, wheatgrass, alfalfa, or clover.

Wiper application When applied as directed, this product controls or suppresses the weeds listed under Wiper Applicators in the SELECTIVE EQUIPMENT section of this label.

For spot treatment and wiper application, apply in areas where the movement of domestic livestock can be controlled. No more than one-tenth of any acre should be treated at one time. Further applications may be made in the same area at 30-day intervals. Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting.

16⁰ SUGARCANE

When applied as directed for CROPPING SYSTEMS under the conditions described, this product controls those emerged annual and perennial weeds listed on this label growing in or around sugarcane or in fields prior to the emergence of plant cane. This product will also control undesirable sugarcane.

NOTE Where repeat treatments are necessary, do not exceed a total of 10.6 quarts of this product per acre per year. Do not apply to vegetation in or around ditches, canals, or ponds containing water to be used for irrigation.

Broadcast treatment Apply this product in 10 to 40 gallons of water per acre on emerged weeds prior to the emergence of plant cane.

For specific rates of application and instructions for control of various annual and perennial weeds, see the WEEDS CONTROLLED section of this label.

For removal of last stubble or ratoon cane, apply 4 to 5 quarts of this product in 10 to 40 gallons of water per acre to new growth having at least 7 or more new leaves. Allow 7 or more days after application before tillage.

Spot treatment in or around sugarcane fields For dilution and rates of application using hand-held equipment, see MIXING, ADDITIVES, AND APPLICATION INSTRUCTIONS and WEEDS CONTROLLED sections of this label. For control of volunteer or diseased sugarcane, make a 1% solution of this product in water and spray to wet the foliage of vegetation to be controlled.

NOTE When spraying volunteer or diseased sugarcane, the plants should have at least 7 new leaves.

Avoid spray contact with healthy cane plants since severe damage or destruction may result.

Do not feed or graze treated sugarcane forage following application.

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17⁰ ROUNDUP READY CROPS

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

Information on Roundup Ready crops may be obtained from your seed supplier or Monsanto representative Roundup Ready crops must be purchased from an authorized licensed seed supplier

The instructions in the sections that follow or those published separately on supplemental labeling for this product include all applications of this product that may be made onto the specified Roundup Ready crops during the complete cropping season DO NOT combine these instructions with other instructions for crops in the ANNUAL AND PERENNIAL CROPS (Alphabetical) and PASTURE GRASSES FORAGE LEGUMES AND RANGELAND sections of this label that do not contain a Roundup Ready gene

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

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

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

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

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

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

See the MIXING and APPLICATION EQUIPMENT AND TECHNIQUES sections of this label for additional directions and restrictions on the application of this product

TANK MIXTURES Tank mixtures with other herbicides insecticides fungicides micronutrients or foliar fertilizers may result in reduced weed control or crop injury and are NOT specified for postemergence (in crop) applications of this product over the top of Roundup Ready crops unless otherwise noted in this product label or in separate supplemental labeling for Fact Sheets published by Monsanto for this product Always read and follow label directions for all products

in the tank mixture Use all products according to labeled rates Some tank mixture products have the potential to cause crop injury under certain conditions at certain crop growth stage and/or under other circumstances Read all labels for products used in the tank mixture prior to use to determine the potential for crop injury Always predetermine the compatibility of tank mix products together in the carrier by mixing small proportional quantities in advance A tank mixture of this product with other herbicides may cause incompatibility antagonism or a reduction in product efficacy Helm has not tested all tank mix product formulations for compatibility or performance See the MIXING section of this label for more information on tank mixtures

Unless otherwise directed nonionic surfactant may be added to the spray solution for applications to Roundup Ready crops The addition of 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 mixture Refer to individual crops within this section of this label or separately published supplemental labeling for additional precautions or restrictions Refer to the MIXING section of this label for additional information on the use of surfactants

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

Sprayer Preparation It is important that sprayer and mixing equipment be clean and free of pesticide residue before making applications of this product Follow the cleaning procedures specified on the label of the product(s) previously used **THOROUGHLY CLEAN THE SPRAY TANK AND ALL LINES AND FILTERS TO ELIMINATE POTENTIAL CONTAMINATION FROM OTHER HERBICIDES PRIOR TO MIXING AND APPLYING THIS PRODUCT**

NOTE The following instructions are based on a clean start at planting by using a burndown application or tillage to control existing weeds before crop emergence In no till and stale seedbed systems a preplant burndown treatment with this product is directed to control existing weeds prior to crop emergence Some weeds such as black nightshade broadleaf signalgrass sicklepod Texas panicum sandbur annual morningglory woolly 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 The second application should be made after some regrowth has occurred and at least 10 days after a previous application of this product

Specified rates of this product specified in this label for the control of tough weeds or those specified on separate supplemental labeling for this product supersede rates as specified in the ANNUAL WEEDS RATE SECTION and PERENNIAL WEEDS RATE SECTION of this label Additional information on the control of tough weeds can be found in Fact Sheets published by Monsanto for this product

RESTRICTIONS Observe the maximum application rates stated throughout this label Maximum application rates apply to the use of this product combined with the use of any and all other herbicides containing Glyphosate as the active ingredient whether applied separately or as mixtures Calculate the application rate (Glyphosate acid equivalents) and ensure that the total use of this and other Glyphosate containing products does not exceed the stated maximum rate See the **PRODUCT INFORMATION** section of this label for more information on Maximum Application Rates

17¹ ROUNDUP READY ALFALFA

TYPES OF APPLICATIONS Preplant At Planting Preemergence Postemergence (In crop)

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

Maximum Application Rates	
Combined total per year for all applications including Preplant during year of establishment	8 quarts per acre
Combined total per year for In crop applications for newly established and established stands	6 quarts per acre (198 fluid ounces per acre)
Preplant At Planting and Preemergence single applications	66 fluid ounces per acre

PRECAUTIONS See the **ROUNDUP READY CROPS** section of this label for general precautionary instructions for use in Roundup Ready crops

RESTRICTIONS See the **PRODUCT INFORMATION** section of this label for more information on Maximum Application Rates

Preplant At Planting Preemergence

USE INSTRUCTIONS This product may be applied before during or after planting Roundup Ready alfalfa

Postemergence (In crop)

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

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

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

NEW STAND ESTABLISHMENT (Seeding Year)	
Application Rates	
Prior to First Cutting	
From emergence up to 4 trifoliolate leaves	33 to 66 fluid ounces per acre
From 5 trifoliolate leaves up to 5 days before first cutting	Up to 66 fluid ounces per acre
After First Cutting	
In crop application per cutting up to 5 days before cutting	Up to 66 fluid ounces per acre

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

ESTABLISHMENT (Non seeding Year)	
Application Rates	
In crop applications per cutting up to 5 days before cutting	Up to 66 fluid ounces per acre

RESTRICTIONS Where Roundup Ready alfalfa is grown with a companion or cover crop or is overseeded with a second species in crop (over the top) applications of this product will eliminate the non Roundup Ready (non glyphosate tolerant) species Any single in crop application of this product should not exceed 66 fluid ounces per acre Sequential applications of this product should be at least 7 days apart The combined total per year for all in crop applications in both newly established (seeding year) and established stands (non seeding year) must not exceed 6 1 quarts (198 fluid ounces) per acre Remove domestic livestock before application Wait a minimum of 5 days after last application before grazing or cutting and feeding of forage and hay

17² ROUNDUP READY CANOLA (Spring Varieties)

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

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TYPE OF APPLICATIONS Preplant At Planting Preemergence Postemergence (in crop)
USE INSTRUCTIONS Refer to the following table for the maximum application rates for this product with Roundup Ready canola (spring varieties)

Maximum Application Rates	
Total of all Preplant At Planting Preemergence applications	66 fluid ounces per acre
Total of all in crop applications from emergence to 6 leaf stage	33 fluid ounces per acre

PRECAUTIONS See the ROUNDUP READY CROPS section of this label for general precautionary instruction for use in Roundup Ready crops

RESTRICTIONS See the PRODUCT INFORMATION section of this label for more information on Maximum Application Rates

Preplant At Planting Preemergence

USE INSTRUCTIONS This product may be applied before during or after planting Roundup Ready spring canola

RESTRICTIONS Maximum quantity of this product that may be applied for all preplant at planting and preemergence applications combined is 66 fluid ounces per acre per season

Postemergence (In crop)

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

Single Application Apply 16.5 to 24 ounces of this product per acre no later than the 6 leaf stage for the control of annual weeds Avoid overlapping applications as this may result in temporary yellowing delayed flowering and/or growth reduction Similar crop injury may result when applications of more than 16.5 fluid ounces per acre are applied after the 4 leaf stage

Sequential Application Apply 16.5 fluid ounces of this product per acre to 1 to 3 leaf canola followed by a sequential application at a minimum interval of 10 days but no later than the 6 leaf stage Sequential applications are specified for early emerging annual weeds and perennial weeds such as Canada thistle and quackgrass or when multiple applications are needed for adequate weed control

RESTRICTIONS No more than two in crop (over the top) broadcast applications may be made from crop emergence through the 6 leaf stage of development and the total of all in crop applications should not exceed 33 fluid ounces of this product per acre Allow a minimum of 60 days between last application and canola harvest

17³ ROUNDUP READY CANOLA (Winter Varieties)

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

TYPE OF APPLICATIONS Preplant At Planting Preemergence Postemergence (In crop)

USE INSTRUCTIONS Refer to the following table for the maximum application rates of this product with Roundup Ready canola (winter varieties)

Maximum Application Rates	
Total of all Preplant At Planting Preemergence applications	66 fluid ounces per acre
Total of all in crop applications from emergence to canopy closure or prior to bolting in the spring	66 fluid ounces per acre

PRECAUTIONS See the ROUNDUP READY CROPS section of this label for general precautionary instructions for use in Roundup Ready crops

RESTRICTIONS See the PRODUCT INFORMATION section of this label for information on Maximum Application Rates

Preplant At Planting Preemergence

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

RESTRICTIONS Maximum quantity of this product that may be applied for all preplant at planting and preemergence applications combined is 66 fluid ounces per acre per season

Postemergence (In crop)

USE INSTRUCTIONS This product may be applied postemergence to Roundup Ready winter canola varieties 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 and yield loss To maximize yield potential make applications early to eliminate competing weeds

Some weeds with multiple germination times or suppressed (stunted) weeds or weeds that have overwintered may require sequential applications of this product for control The second application should be made after some regrowth has occurred and at least 60 days after a previous application of this product

Single Application Apply 24 to 33 fluid ounces of this product per acre in the fall Applications in the fall should be made when weeds are small and actively growing Use the higher rate in the specified range when weed densities are high when weeds have overwintered or when weeds become large and well established Applications of greater than 24 fluid ounces per acre prior to the 6 leaf stage may result in reduced crop growth in the fall Avoid spray overlaps Spray overlaps may result in temporary yellowing and/or growth reduction

Sequential Applications Apply 16.5 to 33 fluid ounces of this product per acre to 2 leaf or larger canola in the fall followed by a sequential application at the same rate and at a minimum interval of 60 days but before bolting in the spring Sequential applications are specified 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 will control or suppress most perennial weeds For some perennial weeds sequential applications may be required to reduce competition with the crop

RESTRICTIONS No more than two over the top broadcast applications may be made from crop emergence up to the onset of bolting and the total in crop application must not exceed 66 fluid ounces of this product per acre Applications of greater than 24 fluid ounces per acre prior to the 6 leaf stage may result in reduced crop growth in the fall Allow a minimum of 60 days between last application and harvest of canola grain No waiting period is required between application and open grazing of livestock

17⁴ CORN HYBRIDS WITH ROUNDUP READY 2 TECHNOLOGY

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

TYPE OF APPLICATIONS Preplant At Planting Preemergence Post emergence (In crop) Spot Treatment Preharvest Post Harvest

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

Maximum Application Rates	
Combined total per year for all applications	8 quarts per acre
Total of all Preplant At Planting Preemergence applications	5 quarts per acre
Total of all In crop applications from emergence through 48 inch corn	96 fluid ounces per acre (48 fluid ounces per acre)

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	per application)
Maximum Preharvest application rate after maximum kernel fill is complete and the crop is physiologically mature (black layer formation) until 7 days before harvest*	33 fluid ounces per acre

*See PRECAUTIONS RESTRICTIONS section for Preharvest applications

PRECAUTIONS See the ROUNDUP READY CROPS section of this label for general precautionary instructions for use in Roundup Ready crops

RESTRICTIONS See the PRODUCT INFORMATION section of this label for information of Maximum Application Rates **The use of the in crop (over the top) rates described in these instructions on other than corn hybrids with Roundup Ready 2 Technology including Roundup Ready Corn 2 and seed products displaying the Roundup Ready 2 Technology logo may cause crop injury and reduced yields** The maximum combined total amount of this product that may be applied per year is 8 quarts per acre

Preplant At Planting Preemergence

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

TANK MIXTURES This product may be tank mixed with the products listed below Ensure that the specific product being used is labeled for application prior to emergence of corn Read and follow label directions for all products in the tank mixture Apply these tank mixtures in 1 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre

Lariat Degree Degree Xtra Harness Harness Xtra Harness Xtra 5 6L Frontier Outlook FulTime Keystone Keystone LA TopNotch acetochlor Bicep MAGNUM Bicep II MAGNUM Bicep Lite II MAGNUM Dual II MAGNUM metolachlor 2 4 D Aim Aim EC Atrazine Axiom Balance PRO Banvel Clarity Define Distinct Epic Guardsman Guardsman MAX Hornet Leadoff Linex Lorox Marksman pendimethalin Python Python II Radius Resolve Resource

PRECAUTIONS Use according to the most restrictive precautionary statements for each product in the tank mixture Refer to individual tank mixture product label for restrictions and precautions

RESTRICTIONS Maximum quantity of this product that may be applied for all preplant at planting and preemergence applications combined is 5 quarts per acre per season

NOTE For maximum weed control a postemergence (in crop) application of this product should be applied following the use of the preemergence residual products listed above

Postemergence (In crop)

USE INSTRUCTIONS This product may be applied alone or in tank mixtures over the top of corn hybrids with Roundup Ready 2 Technology from emergence through the V8 stage (8 leaves with collars) or until corn height reaches 30 inches (free standing) whichever comes first Drop nozzles are specified for optimum spray coverage and weed control when corn height is 24 to 30 inches For corn heights 30 to 48 inches (free standing) apply this product **only** using ground application equipped with drop nozzles aligned to avoid spraying into the whorls of the corn plants Single in crop applications of this product up to 48 inch corn must not exceed 48 fluid ounces per acre Sequential in crop application of this product from emergence through 48 inches in height must not exceed 96 fluid ounces per acre per growing season

When applied as directed this product will control annual grasses and broadleaf weeds listed on this label Many perennial grasses and broadleaf weeds will be controlled or suppressed with one or more applications of this product A postemergence application of 24 to 33 fluid ounces of this product per acre should be made before weeds exceed 4 inches in height or generally before they become competitive with the crop If new flushes of weeds occur a sequential application of this product at 24 to 33 fluid ounces per acre should be made before weeds exceed 4 inches in height

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

Degree Degree Xtra Harness Harness Xtra Harness Xtra 5 6L acetochlor 2 4 D Aim EC Atrazine Banvel Basis

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Tank Mix Partner	Maximum Height of Corn At Application
Degree Degree Xtra Harness Harness Xtra Harness Xtra 5 6L	11 inches
atrazine	12 inches

RESTRICTIONS Allow a minimum of 10 days between in crop applications of this product Allow a minimum of 50 days between application of this product and harvest of corn forage or grain

PRECAUTIONS Refer to individual tank mixture product label for restrictions and precautions use according to the most restrictive precautionary statements for each product in the tank mixture

Preharvest

USE INSTRUCTIONS This product may be applied for annual and perennial weed control prior to harvest at use rates prior to harvest a use rates up to 33 fluid ounces per acre Make applications at 35 percent grain moisture or less Ensure that maximum kernel fill is complete and the corn is physiologically mature (black layer formed)

RESTRICTIONS Allow a minimum of 7 days between application and harvest or feeding of corn stover or grain A preharvest application may **only** be made if the combined total of previously applied over the top or drop nozzle applications does not exceed 66 fluid ounces of this product per acre

Post Harvest

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

RESTRICTIONS Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation

17⁵ ROUNDUP READY COTTON

TYPES OF APPLICATIONS Preplant At Planting Preemergence Post emergence (In crop) Selective Equipment (In crop) Preharvest

USE INSTRUCTIONS Refer to the following table for maximum application rates of this product with Roundup Ready cotton

Maximum Application Rates	
Combined total per year for all applications	8 quarts per acre
Total of all Preplant At Planting Preemergence applications	5 quarts per acre
Total of all in crop applications from ground crackling to layby	4 quarts per acre
Maximum Preharvest application rate	2 quarts per acre
Combined total of all In crop applications from emergence through harvest	6 quarts per acre

PRECAUTIONS See the **ROUNDUP READY CROPS** section of this label for general precautionary instructions for use in Roundup Ready crops

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RESTRICTIONS The combined total application of this product from cotton emergence through harvest must not exceed 6 quarts per acre. Allow a minimum of 7 days between application and harvest. See the **PRODUCT INFORMATION** section of this label for more information on Maximum Application Rates.

Preplant At Planting Preemergence

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

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

Caparol Direx Dual MAGNUM fluometuron metolachlor pendimethalin Reflex Staple

PRECAUTIONS Refer to individual tank mixture product label for restrictions and precautions. Use according to the most restrictive precautionary statements for each product in the tank mixture.

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

Postemergence (In crop)

USE INSTRUCTIONS This product may be applied over the top of Roundup Ready cotton (in crop) at rates up to 33 fluid ounces per acre per application from ground cracking until the 4 leaf (node) stage of development (until the fifth true leaf reaches the size of a quarter). **NO MORE THAN TWO OVER THE TOP BROADCAST APPLICATIONS MAY BE MADE FROM CROP EMERGENCE THROUGH THE 4 LEAF (NODE) STAGE OF DEVELOPMENT. SEQUENTIAL OVER THE TOP OR POST DIRECTED APPLICATIONS OF THIS PRODUCT IN CROP MUST BE AT LEAST 10 DAYS APART AND COTTON MUST HAVE AT LEAST TWO NODES OF INCREMENTAL GROWTH BETWEEN APPLICATIONS. Over the top applications made after the 4 leaf (node) stage of development may result in boll loss, delayed maturity and/or yield loss.**

TANK MIXTURES This product may be tank mixed with the following products and applied over the top of Roundup Ready cotton up to the 4 leaf stage. Ensure that the specific product being used in the tank mixture is registered for application postemergence (in crop) to cotton. Read and follow label directions of all products in the tank mixture.

Assure II Dual MAGNUM Fusilade Poast Plus Elect MAX Staple metolachlor

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

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

Salvage Treatment This treatment may be used after the 4 leaf stage of development and should only be used where weeds threaten to cause the loss of the crop. Apply 33 fluid ounces 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** salvage treatments will result in significant boll loss, delayed maturity and/or yield loss. No more than one salvage treatment should be used per growing season.

RESTRICTIONS Maximum quantity of this product that may be applied for all in crop applications from ground cracking to layby combined is 3.75 quarts per acre per season. **DO NOT ADD ADDITIONAL SURFACTANT OR ADDITIVES CONTAINING SURFACTANT TO THIS PRODUCT (OTHER THAN THOSE CONTAINED IN ANY TANK MIX PRODUCT) FOR OVER THE TOP APPLICATIONS TO ROUNDUP READY COTTON.**

PRECAUTIONS Refer to individual tank mixture product label for restrictions and precautions. Use according to the most restrictive precautionary statements for each product in the tank mixture.

Selective Equipment (In crop)

USE INSTRUCTIONS This product may be applied using precision post directed or hooded sprayers at rates up to 33 fluid ounces per acre per application through layby. At this stage, use post directed equipment that directs the spray to the

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base of the cotton plants Avoid contact of the herbicide spray with leaves of the cotton plant to the maximum extent possible To minimize spray contact maintain a low spray pressure (less than 30 pounds per square inch) and place nozzles in a low position directing a horizontal spray pattern under the leaves of the cotton plant and onto the weeds in the row For best results make applications while weeds re small (less than 3 inches in height) See additional use instructions in the APPLICATION EQUIPMENT AND TECHNIQUES section of this label

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

Aim Caparol Chateau Direx Envoke Layby Pro pendimethalin Staple Valor

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

PRECAUTIONS Refer to individual tank mixture product label for restrictions and precautions use according to the most restrictive precautionary statements for each product in the tank mixture

RESTRICTIONS Maximum quantity of this product that may be applied for all in crop applications from ground cracking to layby combined is 3.75 quarts per acre per season NO MORE THAN TWO APPLICATIONS OF THIS PRODUCT SHOULD BE MADE FROM THE 5 LEAF STAGE THROUGH LAYBY SEQUENTIAL OVER THE TOP OR POST DIRECTED APPLICATIONS OF THIS PRODUCT IN CROP MUST BE AT LEAST 10 DAYS APART AND COTTON MUST HAVE AT LEAST TWO NODES OF INCREMENTAL GROWTH BETWEEN APPLICATIONS

Preharvest

USE INSTRUCTIONS This product may be applied for annual and perennial weed control prior to crop harvest after 20 percent boll crack Apply up to 66 fluid ounces of this product per acre NOTE This product will not enhance the performance of harvest aids when applied to Roundup Ready cotton

RESTRICTIONS Allow a minimum of 7 days between application and harvest of cotton Do not apply this product for preharvest weed control to cotton grown for seed as a reduction in germination or vigor may occur DO NOT ADD ADDITIONAL SURFACTANT OR ADDITIVES CONTAINING SURFACTANT TO THIS PRODUCT FOR PREHARVEST APPLICATIONS TO ROUNDUP READY COTTON

ATTENTION USE OF THIS PRODUCT IN ACCORDANCE WITH LABEL DIRECTIONS IS EXPECTED TO RESULT IN NORMAL GROWTH OF ROUNDUP READY COTTON HOWEVER DUE TO THE SENSITIVITY OF COTTON FRUITING TO VARIOUS ENVIRONMENTAL CONDITIONS AGRONOMIC PRACTICES AND OTHER FACTORS IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS ASSOCIATED WITH THIS PRODUCT EVEN WHEN APPLICATIONS ARE MADE IN CONFORMANCE WITH THE LABEL SPECIFICATIONS IN SOME CASES THESE FACTORS CAN RESULT IN BOLL LOSS DELAYED MATURITY AND/OR YIELD LOSS

17⁶ ROUNDUP READY FLEX COTTON

The instructions provided in this section are specific to and should only be used with varieties designated as Roundup Ready *Flex* cotton Applications described in this section over the top of cotton *other* than Roundup Ready *Flex* cotton will cause crop injury and reduced yields DO NOT combine the instructions in this section with those in the ROUNDUP READY COTTON section of this label or with any other Roundup Ready cotton or Roundup Ready *Flex* cotton instructions on labeling for this or other glyphosate containing products Drift of this product from applications made to Roundup Ready *Flex* cotton onto adjacent fields of post 4 leaf (node) *Roundup Ready* cotton may cause extensive crop injury including boll loss delayed maturity and/or yield loss

TYPES OF APPLICATIONS Preplant At Planting Preemergence Post emergence (In crop) Preharvest

USE INSTRUCTIONS Refer to the following table for maximum application rates of this product with Roundup Ready *Flex* cotton

<u>Maximum Application Rates</u>	
Combined total per year for all applications	8 quarts per acre

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Total of all Preplant At Planting Preemergence application	5 quarts per acre
Total of all In crop applications from cracking to 60 percent open bolls	4 quarts per acre
Total of all In crop applications between layby and 60 percent open bolls	2 quarts per acre
Maximum allowed from 60 percent open bolls to 7 days prior to Harvest	2 quarts per acre

PRECAUTIONS See the **ROUNDUP READY CROPS** section of this label for general precautionary instructions for use in Roundup Ready crops

RESTRICTIONS The combined total application of this product from cotton emergence until harvest must not exceed 6 quarts per acre The maximum combined total quantity of this product for all applications in a season is 8 quarts per acre See the **PRODUCT INFORMATION** section of this label for more information on **Maximum Application Rates**

Preplant Preemergence At Planting

USE INSTRUCTIONS This product may be applied before during or after planting Roundup Ready Flex cotton

TANK MIXTURES This product may be tank mixed with 2 4 D or Clarity and applied prior to planting only This product may be tank mixed with the following product and applied prior to crop emergence Ensure that the specific product being used in the tank mixture is registered for application prior to emergence of cotton Read and follow label directions of all products in the tank mixture

Caparol Direx Dual MAGNUM fluometuron pendimethalin Reflex Staple diuron metolachlor

PRECAUTIONS Refer to individual tank mixture product label for restrictions and precautions use according to the most restrictive precautionary statements for each product in the tank mixture

RESTRICTIONS Maximum quantity of this product that may be applied for all preplant at planting and preemergence applications combined is 5 quarts per acre per season

Postemergence (Over The Top)

USE INSTRUCTIONS This product may be applied by aerial or ground application equipment at rates up to 33 fluid ounces per acre per application postemergence to Roundup Ready cotton from the ground cracking stage until the 4 leaf (node) stage of development (until the fifth true leaf reaches the size of a quarter) Over the top applications made after the 4 leaf (node) stage of development may result in boll loss delayed maturity and/or yield loss

Salvage Treatment This treatment may be used after the 4 leaf stage of development and should only be used where weeds threaten to cause the loss of the crop 33 fluid ounces per acre may be applied either as an over the top application or as a post directed treatment sprayed higher on the cotton plants and over the weeds **NOTE SALVAGE TREATMENTS WILL RESULT IN SIGNIFICANT BOLL LOSS DELAYED MATURITY AND/OR YIELD LOSS NO MORE THAN ONE SALVAGE TREATMENT SHOULD BE USED PER GROWING SEASON**

NOTE For specific rates of application and instructions refer to the **ANNUAL** and **PERENNIAL WEEDS RATE TABLES** in this label

PRECAUTIONS See the **ROUNDUP READY CROPS** section of this label for general precautionary instructions for use in Roundup Ready crops

Selective Equipment

USE INSTRUCTIONS This product may be applied using precision post directed or hooded sprayers at rates up to 33 fluid ounces per acre per application to Roundup Ready Cotton through layby At this stage post directed equipment should be used which directs the spray to the base of the cotton plants Contact of the spray with cotton leaves should be avoided to the maximum extent possible To minimize spray onto the leaves of the cotton plants place nozzles in a low position directing a horizontal spray pattern under the cotton leaves to contact weeds in the row and maintain low spray pressure (less than 30 psi) For best results make applications while weeds are small (less than 3 inches)

PRECAUTIONS See the **Selective Equipment** part of the **APPLICATION EQUIPMENT AND**

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TECHNIQUES section of this label for information on proper use and calibration of this equipment

Preharvest

USE INSTRUCTIONS This product may be applied for preharvest annual and perennial weed control as a broadcast treatment to Roundup Ready cotton after 20 percent boll crack Up to 66 fluid ounces of this product may be applied using either aerial or ground spray equipment **NOTE** This product will not enhance the performance of harvest aids when applied to Roundup Ready cotton

RESTRICTIONS Allow a minimum of 7 days between application and harvest of cotton **Do not apply this product to cotton grown for seed** as a reduction in germination or vigor may occur

ATTENTION USE OF THIS PRODUCT IN ACCORDANCE WITH LABEL DIRECTIONS IS EXPECTED TO RESULT IN NORMAL GROWTH OF ROUNDUP READY FLEX COTTON HOWEVER DUE TO THE SENSITIVITY OF COTTON FRUITING TO VARIOUS ENVIRONMENTAL CONDITIONS AGRONOMIC PRACTICES AND OTHER FACTORS IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS ASSOCIATED WITH THIS PRODUCT EVEN WHEN APPLICATIONS ARE MADE IN CONFORMANCE WITH THE LABEL SPECIFICATIONS IN SOME CASES THESE FACTORS CAN RESULT IN BOLL LOSS DELAYED MATURITY AND/OR YIELD LOSS

Preplant Preemergence At Planting

USE INSTRUCTIONS This product may be applied before during or after planting Roundup Ready Flex cotton

Postemergence (In crop)

USE INSTRUCTIONS When applied in accordance with this label Helosate Flex Herbicide will control labeled annual grasses and broadleaf weeds in Roundup Ready Flex cotton To maximize yield potential spray cotton early to eliminate competing weeds Many perennial weeds will be controlled or suppressed with one or more applications of this product In general an initial application of 33 fluid ounces per acre on 1 to 3 mch tall annual grass and broadleaf weeds is specified This product may be applied by ground application equipment at rates up to 48 fluid ounces per acre per application postemergence to Roundup Ready Flex cotton In addition to broadcast applications post directed equipment may be used to achieve weed coverage

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

Assure II Dual MAGNUM Envoke Fusillade Poast Plus Select MAX Staple metolachlor

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

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

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

Aim Caparol Chateau Direx Envoke Layby Pro pendimethalin Staple Valor

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

NOTE For specific rates of application and instruction refer to the **ANNUAL** and **PERENNIAL WEEDS RATE TABLES** in this label

PRECAUTIONS Refer to individual tank mixture product label for restrictions and precautions use according to the most restrictive precautionary statements for each product in the tank mixture

RESTRICTIONS The maximum rate for any single in crop application of this product to Roundup Ready Flex cotton is 48 fluid ounces per acre made using ground application equipment **In crop application rates above 33 fluid ounces per acre made alone or with the addition of other crop chemical products containing surfactant or adding additional surfactant may cause a crop response including leaf speckling or leaf necrosis** Do not exceed a maximum rate of 33 fluid ounces per acre of this product when making applications by air Between layby and 60 percent

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open bolls the maximum combined total rate of this product that may be applied is 66 fluid ounces per acre The maximum combined total of all applications made from crop emergence to 60 percent open bolls must not exceed 60 quarts per acre DO NOT ADD ADDITIONAL SURFACTANT OR ADDITIVES CONTAINING SURFACTANT TO THIS PRODUCT FOR OVER THE TOP APPLICATIONS TO ROUNDUP READY FLEX COTTON

Preharvest

USE INSTRUCTIONS This product may be applied for preharvest annual and perennial weed control as a broadcast treatment to Roundup Ready Flex cotton after 60 percent boll crack Up to 66 fluid ounces of this product may be applied using either aerial or ground spray equipment **NOTE** This product will not enhance the performance of harvest aids when applied to Roundup Ready Flex cotton

RESTRICTIONS Allow a minimum of 7 days between application and harvest of Roundup Ready Flex cotton **DO NOT ADD ADDITIONAL SURFACTANT OR ADDITIVES CONTAINING SURFACTANT TO THIS PRODUCT FOR PREHARVEST APPLICATIONS TO ROUNDUP READY FLEX COTTON** Do not apply this product over the top beyond first bloom to cotton grown for seed

ATTENTION USE OF THIS PRODUCT IN ACCORDANCE WITH LABEL DIRECTIONS IS EXPECTED TO RESULT IN NORMAL GROWTH OF ROUNDUP READY FLEX COTTON HOWEVER DUE TO THE SENSITIVITY OF COTTON FRUITING TO VARIOUS ENVIRONMENTAL CONDITIONS AGRONOMIC PRACTICES AND OTHER FACTORS IT IS IMPOSSIBLE TO ELIMINATE ALL RISKS ASSOCIATED WITH THIS PRODUCT EVEN WHEN APPLICATIONS ARE MADE IN CONFORMANCE WITH THE LABEL SPECIFICATIONS IN SOME CASES THESE FACTORS CAN RESULT IN BOLL LOSS DELAYED MATURITY AND/OR YIELD LOSS

17⁷ ROUNDUP READY SOYBEANS

TYPES OF APPLICATIONS Preplant At Planting Preemergence Post emergence (In crop) Preharvest Post Harvest

USE INSTRUCTIONS Refer to the following table for maximum application rates of this product with Roundup Ready soybeans

Maximum Application Rates	
Combined total per year for all applications	8 quarts per acre
Total of all Preplant At Planting Preemergence applications	5 quarts per acre
Total of all In crop applications from Cracking through flowering (R2 stage soybeans)	96 fluid ounces per acre
Maximum Preharvest application rate	33 fluid ounces per acre

PRECAUTIONS See the **ROUNDUP READY CROPS** section of this label for general precautionary instructions for use in Roundup Ready crops

RESTRICTIONS The maximum combined total quantity of this product for all applications in a season is 8 quarts per acre See the **PRODUCT INFORMATION** section of this label for more information on Maximum Application Rates

Preplant At Planting Preemergence

USE INSTRUCTIONS This product may be applied before during or after planting Roundup Ready soybeans

TANK MIXTURES This product may be tank mixed with 2 4 D Banvel or Clarity and applied prior to planting only This product may be tank mixed with the following products and applied prior to crop emergence Ensure that the specific product being used in the tank mixture is registered for application prior to emergence of soybeans Read and follow label directions of all products in the tank mixture

Aim Assure II Axiom Authority Blanket Boundary Canopy Classic Cobra Command Command Xtra Domain Dual MAGNUM Dual II MAGNUM FirstRate Flexstar Frontier Fusion Gangster INTRRO Lexone Linex Lorox metolachlor MicroTech Outlook Pendimax pendimethalin Pursuit Pursuit Plus Python Reflex Resource Scepter

99/75

Select Select MAX Sencor Spartan Squadron Steel Treflan Valor 2 4 D

PRECAUTIONS Refer to individual tank mixture product label for restrictions and precautions use according to the most restrictive precautionary statements for each product in the tank mixture

RESTRICTIONS Maximum quantity of this product that may be applied for all preplant at planting and preemergence applications combined is 5 quarts per acre per season

Postemergence (In crop)

USE INSTRUCTIONS This product may be used to control annual grasses and broadleaf weeds in Roundup Ready soybeans Applications of this product can be made in Roundup Ready soybeans from emergence (cracking) through flowering (R2 state soybeans) R2 stage soybeans 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 ANNUAL WEEDS RATE SECTION of this label for rate instructions for specific annual weeds In general an initial application of 33 fluid ounces per acre on 2 to 8 inch tall weeds is specified Weeds will generally be 2 to 8 inches tall 2 to 5 weeks after planting If the initial application is delayed and weeds are larger apply a higher rate of this product This product may be applied to up 2 quarts per acre as a single in crop application for control of annual weeds and where dense weed populations exist

A 33 to 66 fluid ounce per acre rate (single or multiple applications) of this product will control or suppress perennial weeds such as Bermudagrass Canada thistle common milkweed field bindweed hemp dogbane horsenettle marestail (horseweed) nutsedge quackgrass rhizome Johnsongrass redvine trumpetcreeper swamp smartweed and wirestem muhly For best results allow perennial weed species to achieve at least 6 inches of growth before spraying with this product

Under adverse growing conditions such as drought hail wind damage or a poor soybean stand that slows or delays canopy closure a sequential application of this product may be necessary to control late flushes of weeds IN THE SOUTHERN STATES A SEQUENTIAL APPLICATION OF THIS PRODUCT WILL BE REQUIRED TO CONTROL NEW FLUSHES OF WEEDS IN THE ROUNDUP READY SOYBEAN CROP To control giant ragweed it is specified that 33 fluid ounces of this product per acre be applied when the weed is 8 to 12 inches tall to increase control and possible avoid the need for a sequential application

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

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

PRECAUTIONS Refer to individual tank mixture product label for restrictions and precautions use according to the most restrictive precautionary statements for each product in the tank mixture In some cases these tank mix products will cause visual soybean injury

RESTRICTIONS The combined total application from crop emergence through harvest must not exceed 96 fluid ounces per acre The maximum rate for any single in crop application is 66 fluid ounces per acre The maximum combined total of this product that can be applied during flowering (R2 stage soybeans) is 66 fluid ounces per acre

Preharvest

USE INSTRUCTIONS This product may be applied to Roundup Ready soybeans for weed control prior to harvest Apply up to 33 fluid ounces of this product per acre after pods have set and lost all green color

PRECAUTIONS Care should be taken to avoid excessive seed shatter loss due to ground application equipment

RESTRICTIONS Allow a minimum of 14 days between final application and harvest of soybean grain or feeding of soybean grain forage or hay

Post Harvest

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

50/75

17⁸ ROUNDUP READY SUGAR BEET

TYPES OF APPLICATIONS Preplant At Planting Preemergence Post emergence (In crop)

USE INSTRUCTIONS Refer to the following table for maximum application rates of this product with Roundup Ready sugar beet

Maximum Application Rates	
Combined total per year for all applications	8 quarts per acre
Total of all Preplant At Planting Preemergence applications	5 quarts per acre
Total of all In crop applications from emergence to 8 leaf stage	84 fluid ounces per acre
Total of all applications made between 8 leaf stage and canopy closure	66 fluid ounces per acre

PRECAUTIONS See the ROUNDUP READY CROPS section of this label for general precautionary instructions for use in Roundup Ready crops

RESTRICTIONS The maximum combined total quantity of this product for all applications in a season is 8 quarts per acre See the PRODUCT INFORMATION section of this label for more information on Maximum Application Rates

Preplant At Planting Preemergence

USE INSTRUCTIONS This product may be applied before during or after planting Roundup Ready sugar beets

PRECAUTIONS RESTRICTIONS Maximum quantity of this product that may be applied for all preplant at planting and preemergence applications combined is 5 quarts per acre per season

Postemergence (In crop)

USE INSTRUCTIONS This product may be applied over the top of Roundup Ready sugar beets for control of annual grasses and broadleaf weeds from emergence to 30 days prior to harvest To maximize yield potential spray sugar beets early to eliminate competing weeds Up to 4 sequential applications of this product may be made with at least 10 days between applications This product will control or suppress most perennial weeds For some perennial weeds repeat applications may be required to eliminate crop competition throughout the growing season

RESTRICTIONS The combined total application of this product from crop emergence through harvest must not exceed 4 5 quarts per acre The maximum rate for any single application from crop emergence until the 8 leaf stage and canopy closure is 33 fluid ounces per acre Allow a minimum of 30 days between last application and sugar beet harvest

PRECAUTIONS Tank mixtures of this product with herbicides insecticides or fungicides may result in crop injury or reduced weed control

18⁰ CONSERVATION TILLAGE, MINIMUM TILLAGE AND NO TILL SYSTEMS

18¹ CORN AND SOYBEANS

Tank Mixtures

THE DIRECTIONS PROVIDED IN THIS SECTION ARE NOT REGISTERED FOR USE IN CALIFORNIA

When applied as specified under the conditions described these tank mixtures listed in this section control many emerged weeds and give pre emergence control of many annual weeds where corn or soybeans will be planted directly into a cover crop established sod or in previous crop residues

Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank mixtures For mixing instructions see the MIXING ADDITIVES AND APPLICATION INSTRUCTIONS section of this label

Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre before during or

after planting Do not apply these mixtures after crop emergence

When tank mixing with residual herbicides add an agriculturally approved nonionic surfactant at 0.5 to 1% volume of spray solution The addition of 1 to 2% dry ammonium sulfate by weight may increase the performance of this product

NOTE When using these tank mixtures do not exceed 4 quarts of this product per acre

18² CORN

For residual control this product may be tank mixed with the following herbicides or combination of herbicides

Lasso / alachlor Lariat® Bullet® Dual Magnum™	Bicep Magnum® Partner® Atrazine Cyanazine	Simazine Prowl® Micro Tech®
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For improved burndown this product may be tank mixed with 2,4-D or dicamba Applications of 2,4-D or dicamba must be made at least 7 days prior to planting corn See the WEEDS CONTROLLED section for specific rate information

18³ SOYBEANS

For residual control this product may be tank mixed with the following herbicides or combination of herbicides

Canopy® Command® Dual Magnum Gemini™ Lasso / alachlor Lexone™	Linuron Pursuit® Partner Lorox® Plus Preview™ Prowl	Turbo™ Scepter® Sencor® Squadron® Pursuit Plus Micro Tech
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For improved burndown this product may be tank mixed with 2,4-DB and 2,4-D see the label for 2,4-D for intervals between application and planting

18³ CORN AND SOYBEANS

Annual weeds 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 2 pints per acre in the tank mixtures above specific to each crop For other labeled annual weeds apply 1 to 1.5 pints of this product per acre when weeds are less than 6 inches tall and 2 to 3 pints when weeds are over 6 inches tall For a complete list of annual weeds controlled see the WEEDS CONTROLLED section of this label

Perennial weeds At normal application times in minimum tillage systems perennial weeds may not be at the proper stage of growth for control See the WEEDS CONTROLLED section of this label for the proper stage of growth for perennial weeds

Use of 2 to 4 quarts of this product per acre in the tank mixtures mentioned above under these conditions provides top kill and reduces competition from many emerged perennial grasses and broadleaf weeds

For emerged perennial weeds controlled see the WEEDS CONTROLLED section of this label

To obtain the desired stage of growth it may be necessary to apply this product alone in the late summer or fall and then follow with a label approved seedling weed control program at planting

USE OF THESE TANK MIXTURES FOR BERMUDA GRASS OR JOHNSONGRASS CONTROL IN MINIMUM TILLAGE SYSTEMS IS NOT SPECIFIED For Bermuda grass control follow the instructions under the PERENNIAL WEEDS section of this label and then use a label approved seedling weed control program in a minimum tillage or conventional tillage system For Johnsongrass control follow instructions under the PERENNIAL WEEDS section of this label Then use a label approved seedling weed control program with conventional tillage

PREHARVEST APPLICATIONS

When applied as directed under the conditions described this product controls annual and perennial weeds listed on this label prior to the harvest of cotton soybeans grain sorghum (milo) and wheat

For specific rates and application instructions for control of various annual and perennial weeds see the WEEDS CONTROLLED section of this label

This product may be applied by both ground and aerial application equipment
DO NOT APPLY MORE THAN 1 QUART PER ACRE OF THIS PRODUCT BY AIR See the APPLICATION EQUIPMENT AND TECHNIQUES section of this label for instructions for ground and aerial applications

NOTE Do not apply to crops grown for seed Reduction in germination or vigor may occur

THE USE OF THIS PRODUCT FOR PREHARVEST GRAIN SORGHUM (MILO) IS NOT REGISTERED IN CALIFORNIA

18⁴ SOYBEANS

Apply after all pods have set and lost all green color Allow a minimum of 7 days between application and harvest of soybeans Care should be taken to avoid excessive seed shatter loss due to ground application equipment Do not graze or harvest treated crop for livestock feed within 25 days of last preharvest application

DO NOT APPLY MORE THAN 6 QUARTS PER ACRE OF THIS PRODUCT FOR PREHARVEST APPLICATIONS

18⁵ COTTON

Broadcast applications This product may be applied using either aerial or ground spray equipment For ground applications with broadcast equipment apply this product in 10 to 20 gallons of water per acre For aerial applications apply this product in 3 to 10 gallons of water per acre

This product provides weed control and cotton regrowth inhibition when applied prior to the harvest of cotton Apply 1 to 2 quarts of this product in 3 to 10 gallons of water per acre for cotton regrowth inhibition Do not apply more than 2 quarts of this product per acre for preharvest applications THE USE OF ADDITIVES FOR PREHARVEST APPLICATION TO COTTON IS PROHIBITED

This product may be tank mixed with DEF^{®6} Folex[®] or Prep[™] to provide additional enhancement of cotton leaf drop

Allow a minimum of 7 days between application and harvest of cotton

Apply after sufficient bolls have developed to produce the desired yield of cotton Applications made prior to this time could affect maximum yield potential

Do not feed or graze treated cotton forage or hay following preharvest applications

18⁶ GRAIN SORGHUM (MILO)

Make applications at 30% grain moisture or less and at least 7 days prior to harvest

Apply up to 2 quarts of this product per acre

18⁷ WHEAT

Apply after hard dough stage of grain (30% or less grain moisture) and at least 7 days prior to harvest

DO NOT APPLY MORE THAN 1 QUART PER ACRE OF THIS PRODUCT FOR PREHARVEST APPLICATIONS TO WHEAT

19⁰ TREE AND VINE CROPS

This product is specified for weed control in established groves vineyards and orchards or for site preparation prior to transplanting crops listed in this section Applications may be made with boom equipment CDA shielded

sprayers hand held and high volume wands lances orchard guns or with wiper applicator equipment except as directed in this section See the APPLICATION EQUIPMENT AND TECHNIQUES section of this label for specific information on use of equipment

When applying this product refer to the WEEDS CONTROLLED section of this label and to specific instructions in this section for rates to be used

NOTE Repeat treatments may be necessary to control weeds originating from underground parts of untreated weeds or from seeds This product does not provide residual weed control For subsequent weed control use repeated applications of this product Do not apply more than 10 6 quarts of this product per acre per year

EXTREME CARE MUST BE EXERCISED 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 OR VINES CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE

AVOID PAINTING CUT STUMPS WITH THIS PRODUCT AS INJURY RESULTING FROM ROOT GRAFTING MAY OCCUR IN ADJACENT TREES

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

For specific rates of application and instructions see the WEEDS CONTROLLED section of this label and the specific directions that follow

Middles Management (For annual weeds in middles between rows of tree and vine crops)

For citrus crops treat uniformly between trees

HELOSATE PLUS ADVANCED

HELOSATE PLUS ADVANCED plus Goal

This product alone or in mixtures with Goal will control or suppress the annual weeds listed below Apply the specified rates of this product either alone or in mixtures with Goal plus 0.5 to 1% nonionic surfactant by spray volume in 3 to 10 gallons of water per acre Apply when weeds are actively growing and less than 6 inches in height or diameter If weeds are under drought stress irrigate prior to application Reduced control may occur if weeds have been mowed prior to application Up to 48 fl oz per acre of this product may be used to control weeds which have been mowed are stressed or are growing in dense populations

Weed Species		Maximum Height / Diameter (inches)	Rate per Acre		
			HELOSATE PLUS ADVANCED (fl oz)		Goal (fl oz)
Barley	<i>Hordeum vulgare</i>	6	8		
Bluegrass annual	<i>Poa annua</i>				
Barnyardgrass	<i>Echinochloa crus galli</i>		12		
Chickweed common	<i>Stellaria media</i>				
Red maids	<i>Calandrima ciliata</i>				
Crabgrass	<i>Digitaria spp</i>		16		
Fleabane hairy	<i>Conyza bonariensis</i>			or	
Groundsel common	<i>Senecio vulgaris</i>		16 to 32	+	
Junglerice	<i>Echinochloa colonum</i>				4 to 16**

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Lamb s quarters common	<i>Chenopodium album</i>				
Pigweed redroot	<i>Amaranthus retroflexus</i>				
Rocket London	<i>Sisymbrium irio</i>				
Ryegrass common or Italian	<i>Lolium multiflorum</i>				
Shepherd s purse	<i>Capsella bursa pastoris</i>				
Sowthistle annual	<i>Sonchus oleraceus</i>				
Cheeseweed common	<i>Malva spp</i>	3	12 to 32	+	4 to 16
Cheeseweed common	<i>Malva spp</i>	6	16 to 32	+	4 to 16
Filaree*	<i>Erodium spp</i>				
Horseweed / marestail	<i>Conyza canadensis</i>				
Nettle stinging	<i>Urtica dioica</i>				
Purslane common	<i>Portulaca oleracea</i>				

* Suppression only

** The mixture of this product plus Goal is specified when weeds are stressed or growing in dense populations

Strips (For annual and perennial weeds in strips of tree and vine crops)

Tank mixtures with residual herbicides When applied as a tank mixture this product provides control of the emerged annual weeds and control or suppression of emerged perennial weeds listed in this label

The following residual herbicides will provide pre emergence control of those weeds listed in the individual product labels

- HELOSATE PLUS ADVANCED plus Goal 2XL
- HELOSATE PLUS ADVANCED plus Karmex® DF
- HELOSATE PLUS ADVANCED plus Krovar I
- HELOSATE PLUS ADVANCED plus Krovar II
- HELOSATE PLUS ADVANCED plus Simazine Princep Caliber 90
- HELOSATE PLUS ADVANCED plus Simazine 4L
- HELOSATE PLUS ADVANCED plus Simazine 80W
- HELOSATE PLUS ADVANCED plus Solicam™ 80DF
- HELOSATE PLUS ADVANCED plus Surflan AS
- HELOSATE PLUS ADVANCED plus Surflan 75W
- HELOSATE PLUS ADVANCED plus Simazine (80W or 4L or Princep Caliber 90) plus Surflan (AS or 75W)
- HELOSATE PLUS ADVANCED plus Goal (2XL) plus Surflan (AS or 75W)
- HELOSATE PLUS ADVANCED plus Goal (2XL) plus Simazine (80W or 4L or Princep Caliber 90)
- HELOSATE PLUS ADVANCED plus Goal (2XL) plus Surflan (AS or 75W) plus Simazine (80W or 4L or Princep Caliber 90)

Do not apply these tank mixtures in Puerto Rico

When tank mixing with residual herbicides add an agriculturally approved nonionic surfactant at 0.5 to 1% by volume of spray solution

Refer to the individual product labels for specific crops rates geographical restrictions and precautionary statements Read and carefully observe the label claims cautionary statements rates and all other information on the labels of all products

Application rates

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Annual weeds Apply 1 to 5 quarts per acre of this product in these tank mixtures Use rates at the higher end of the specified range when weeds are stressed growing in dense populations or are greater than 12 inches tall

Perennial weeds Apply 1 pint to 5 quarts per acre of this product in these tank mixtures to control or suppress perennial weeds Follow the directions in the WEEDS CONTROLLED section of this label for stage of growth and application rates for specific perennial weeds

HELOSATE PLUS ADVANCED plus Goal plus simazine / Surflan

This product plus low rates of Goal in 3 way or 4 way mixtures with simazine and/or Surflan will provide post emergence control of the weeds listed below

Refer to the individual simazine and Surflan labels for pre emergence rates weeds controlled precautionary statements and other important information

Apply these tank mixtures in 3 to 40 gallons of water Add 0.5 to 1% nonionic surfactant by total spray volume to the spray solution

Apply 1 to 5 quarts per acre of this product plus 4 to 48 fl oz per acre of Goal plus labeled rates of simazine and/or Surflan to control the following weeds

Barley wild	<i>Hordeum leporinum</i>	Horseweed / marestalk	<i>Coryza canadensis</i>
Bluegrass annual	<i>Poa annua</i>	Nettle stinging	<i>Urtica dioica</i>
Cheeseweed common	<i>Malva spp</i>	Pineappleweed	<i>Matricaria matricarioides</i>
Chickweed common	<i>Stellaria media</i>	Rocket London	<i>Sisymbrium irio</i>
Filaree*	<i>Erodium spp</i>	Shepherd s purse	<i>Capsella bursa pastoris</i>
Fleabane hairy	<i>Coryza bonariensis</i>	Sowthistle annual	<i>Sonchus oleraceus</i>
Groundsel common	<i>Senecio vulgaris</i>		

*Use a minimum of 1.5 quarts of product in these mixtures

NOTE This direction does not preclude the use of Goal in these mixtures at higher labeled rates for pre emergence weed control

19¹ PERENNIAL GRASS SUPPRESSION ORCHARD FLOORS

When applied as directed this product will suppress vegetative growth as indicated below

Bahiagrass This product will provide significant inhibition of seedhead emergence and will suppress vegetative growth for a period of approximately 45 days with a single application and approximately 120 days with sequential applications Apply this product 1 to 2 weeks after full green up or after mowing to a uniform height of 3 to 4 inches Applications must be made prior to seedhead emergence Apply 6 fl oz of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 10 to 25 gallons of water per acre

Sequential applications of this product plus nonionic surfactant may be made at approximately 45 day intervals to extend the period of seedhead and vegetative growth suppression For continued seedhead suppression sequential applications must be made prior to seedhead emergence Apply no more than 2 sequential applications per year As a first sequential application apply 4 fl oz of this product plus nonionic surfactant A second sequential application of 2 to 4 fl oz may be made approximately 45 days after the last application

Bermuda grass For burndown apply 1 to 2 quarts of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 20 gallons of water per acre Use 1 quart of this product in 3 to 20 gallons of water per acre east of the Rocky Mountains Use 1 to 2 quarts of this product in 3 to 10 gallons of water per acre west of the Rocky Mountains Use this treatment only if reduction of the Bermuda grass stand can be tolerated When burndown is required prior to harvest allow at least 21 days ensuring sufficient time for burndown to occur

Suppression only (east of the Rocky Mountains) Apply 6 to 16 fl oz of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 20 gallons of water per acre no sooner than 1 to 2 weeks after full green up Mowing prior to application may occur provided a minimum height of 3 inches is maintained Rates of 6 to 10 fl oz of this product plus nonionic surfactant should be used in shaded conditions or where a lesser degree of suppression is

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desired Sequential applications may be made when regrowth occurs and Bermuda grass injury and stand reduction can be tolerated

Suppression only (west of the Rocky Mountains) Apply 16 fl oz of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre to Bermuda grass up to 6 inches in height and no sooner than 1 to 2 weeks after full green up Mowing prior to application may occur provided a minimum height of 3 inches is maintained Sequential applications may be made when regrowth occurs and Bermuda grass injury and stand reduction can be tolerated

Cool season grass covers For suppression of tall fescue fine fescue orchardgrass and quackgrass apply 8 fl oz of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 10 to 20 gallons of water per acre For best suppression add ammonium sulfate to the spray solution at a rate of 2% by weight or 17 pounds per 100 gallons of spray solution

For suppression of Kentucky bluegrass covers apply 6 fl oz of this product plus 0.5 to 1% nonionic surfactant Do not add ammonium sulfate

For best results mow cool season grass covers in the spring to even their height and apply the specified rate of this product 3 to 4 days after mowing Avoid treating cool season grass covers under poor growing conditions such as drought stress (drip irrigation) disease or insect damage

Low Volume Application (Florida and Texas)

For burndown or control of the weeds listed apply the specified rates of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 3 to 30 gallons of water per acre Where weed foliage is dense use 10 to 30 gallons of water per acre

Annual weeds Goatweed Apply 2 to 3 quarts per acre of this product plus 17 pounds of ammonium sulfate per 100 gallons of water plus 0.5 to 1% nonionic surfactant by total spray volume Apply in 20 to 30 gallons of water per acre when plants are actively growing Use 2 quarts per acre when plants are less than 8 inches tall and 3 quarts per acre when plants are greater than 8 inches If goatweed is greater than 8 inches tall the addition of Kroval II or Karmex may improve control Use labeled rates for these residual products

Read and carefully observe the label claims cautionary statements rates and all other information on the Krovar II and Karmex labels

Perennial weeds Apply when leaves are actively growing and at the growth stages listed in the PERENNIAL WEEDS section of this label If perennial weeds are mowed allow weeds to regrow to the specified stage of growth

S = suppression B = burndown C = control PC = partial control

Low Volume Application (Florida and Texas)				
Weed Species	HELOSATE PLUS ADVANCED Rate per Acre			
	1 qt	2 qts	3 qts	5 qts
Bermuda grass	B		PC	C
Guineagrass Texas and Florida ridge Florida flatwoods	B	C B	C C	C C
Paragrass	B	C	C	C
Torpedograss	S		PC	C

19² TREE CROPS

Citrus***** calamondin chironja citron grapefruit kumquat lemon lime mandarin orange orange pummelo tangelo tangerine tangors

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Nuts** almond beechnut Brazil nut butternut cashew chestnuts chinquapin filbert hazelnut hickory nut macadamia pecan pistachio walnut

Pome Fruit***** apple loquat mayhaw pear quince

Stone Fruit*** apricots cherries nectarines olives peaches plums / prunes

For cherries any application equipment listed in this section may be used in all states

For citron and olives apply as a directed spray only

Any application equipment listed in this section may be used in apricots nectarines peaches and plums / prunes growing in Arizona California Colorado Idaho Kansas Kentucky New Jersey North Dakota Oklahoma Oregon Texas Utah and Washington except for peaches grown in states specified in the following paragraph In all other states use wiper equipment only

For peaches grown in Alabama Arkansas Florida Georgia Louisiana Mississippi North Carolina South Carolina and Tennessee only apply with a shielded boom sprayer or shielded wiper applicator which prevents any contact with the foliage or bark of trees Apply no later than 90 days after first bloom Applications made after this time may result in severe damage 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 2 or more years **EXTREME CARE MUST BE TAKEN TO ENSURE NO PART OF THE PEACH TREE IS CONTACTED**

Tropical Fruit acerola* atemoya* avocado* banana***** breadfruit* canistel* carambola* cherimoya* cocoa beans* coffee**** dates* figs* genip* guava***** jaboricaba* jackfruit* longan* lychee* mango* mayhaw* papaya***** passion fruit* persimmons* plantains***** pomegranate* sapodilla* sapote* soursop* sugar apple* tamarind* tea* In coffee and banana delay applications 3 months after transplanting to allow the new coffee or banana plant to become established

NOTE

- * Allow a minimum of 14 days between last application and harvest
- ** Allow a minimum of 3 days between last application and harvest
- *** Allow a minimum of 17 days between last application and harvest
- **** Allow a minimum of 28 days between last application and harvest
- ***** Allow a minimum of 1 day between last application and harvest

19³ VINE CROPS

Kiwi Fruit

Grapes Any variety of table wine or raisin grapes may be treated with any equipment listed in this section

Applications should not be made when green shoots canes or foliage are in the spray zone

Allow a minimum of 14 days between last application and harvest

In the Northeast and Great Lakes regions applications must be made prior to the end of bloom stage of grapes to avoid injury

20⁰ NONCROP USES

See **PRODUCT INFORMATION** and **MIXING ADDITIVES AND APPLICATION INSTRUCTIONS** sections of this label for essential product performance information and the following **NONCROP** sections for specific uses

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE GREEN STEMS EXPOSED NON WOODY ROOTS OR FRUIT OF CROPS DESIRABLE TURFGRASSES TREES SHRUBS OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT

Repeat treatments may be necessary to control weeds regenerating from underground parts or seeds Where repeat applications are necessary do not exceed 10.6 quarts of this product per acre per year The maximum use rates stated throughout this product's labeling apply to this product combined with the use of all other herbicides containing glyphosate or sulfosate as the active ingredient whether applied as mixtures or separately Calculate the application rates

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and ensure that the total use of this and other glyphosate or sulfosate containing products does not exceed stated maximum use rate This product does not provide residual weed control For subsequent weed control follow a label approved herbicide program

Read and carefully observe all cautionary statements and all other information appearing on the labels of all herbicides used

21⁰ INDUSTRIAL, RECREATIONAL AND PUBLIC AREAS

When applied as directed for NONCROP USES under conditions described this product controls annual and perennial weeds listed on this label growing in areas including airports ditch banks dry ditches dry canals fencerows golf courses highways industrial plant sites lumberyards parking areas parks petroleum tank farms and pumping installations pipelines power and telephone rights of way railroads roadsides schools storage areas and utility substations For specific rates of application and instructions for control of various annual and perennial weeds and woody brush and trees see the WEEDS CONTROLLED section of this label

This product may be applied with recirculating sprayers shielded applicators or wiper applicators in any noncrop site specified on this label See the SELECTIVE EQUIPMENT part of APPLICATION EQUIPMENT AND TECHNIQUES section of this label for information on proper use and calibration of this equipment

21¹ Tank Mixtures For Industrial Sites And Forestry Site Preparations

HELOSATE PLUS ADVANCED plus Oust

Use on industrial sites including airports industrial plants lumberyards petroleum tank farms pumping stations pipelines railroads roadsides storage areas or other similar sites where bare ground is desired

This tank mixture may also be used as a site preparation treatment for sites to be planted to jack pine loblolly pine red pine slash pine and Virginia pine

When applied as directed for NONCROP USES under the conditions described this product plus Oust provides control of annual weeds listed in the WEEDS CONTROLLED section of the label for this product and Oust and control or partial control of the perennial weeds listed below

Apply 1 to 2 quarts of this product with 2 to 4 ounces of Oust in 10 to 40 gallons of spray solution per acre as a broadcast spray to actively growing weeds

This mixture may be applied by aerial equipment in site prep operations When applied by air use the specified rates in 5 to 15 gallons of spray solution per acre

THIS PRODUCT PLUS OUST TANK MIXTURES MAY NOT BE APPLIED BY AIR IN CALIFORNIA

For control of annual weeds use the lower rates of these products

For control on the listed perennial weeds use the higher rates of both products For partial control use the lower rates

Bahiagrass	<i>Paspalum notatum</i>	Johnsongrass**	<i>Sorghum halepense</i>
Bermuda grass*	<i>Cynodon dactylon</i>	Poorjoe**	<i>Diodia teres</i>
Broomsedge	<i>Andropogon virginicus</i>	Quackgrass	<i>Elytrigia repens</i>
Dock curly	<i>Rumex crispus</i>	Trumpetcreeper*	<i>Campsis radicans</i>
Dogfennel	<i>Eupatorium capillifolium</i>	Vaseygrass	<i>Paspalum urvillei</i>
Fescue tall	<i>Festuca arundinacea</i>	Vervain blue	<i>Verbena hastata</i>

*Suppression at higher rates only

** Control at the lower rates

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used

HELOSATE PLUS ADVANCED plus Garlon 4

For burndown and partial control or suppression of woody brush and weeds in industrial sites This tank mixture is specified for use on rights of way (utility railroad highway pipeline) fencerows roadsides non irrigation ditchbanks wasteland and similar noncrop or industrial sites

Hand held and high volume applications

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Use 2 to 4 quarts of HELOSATE PLUS ADVANCED Herbicide plus 1 to 2 quarts of Garlon 4 per 100 gallons of spray solution and apply to foliage of actively growing woody brush and weeds. Applications should be made on a spray to wet basis. Spray coverage should be uniform and complete. Do not spray to point of runoff.

Broadcast applications with ground equipment

Use 2 to 4 quarts of HELOSATE PLUS ADVANCED plus 1/2 to 2 quarts of Garlon 4 in sufficient water to make 20 to 100 gallons of total spray per acre.

Aerial applications (helicopter only)

Use 2 to 4 quarts of HELOSATE PLUS ADVANCED plus 1 to 2 quarts of Garlon 4 and apply in a total spray volume of 10 to 20 gallons per acre. Aerial sprays should be applied using suitable drift control.

Apply when plants are actively growing and after full leaf expansion of woody brush. Use the higher rates of these products where vegetation is heavy or dense or where hard to control brush species are prevalent. Repeat applications may be necessary to maintain control or suppress areas where canopying of vegetation prevents good spray coverage and penetration.

Nonionic surfactants which are labeled for use with herbicides may be used. Use 0.5 percent surfactant concentration (2 quarts per 100 gallons of spray solution) when using surfactants which contain at least 50 percent active ingredient or a 1 percent surfactant concentration (4 quarts per 100 gallons of spray solution) for those surfactants containing less than 50 percent active ingredient. Read and carefully observe cautionary statements and other information appearing on the surfactant label.

Drift control additive may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

Read and carefully observe the label claims, cautionary statements and all information on the labels of both products used in this tank mixture. Use according to the most restrictive label directions for each product in the mixture.

When used in combination as directed by HELM, the liability of HELM shall in no manner extend to any damage, loss or injury not directly caused by the inclusion of the HELM product in such combination use.

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

21² Forestry Site Preparation Prior to Planting Douglas Fir in Washington and Oregon

HELOSATE PLUS ADVANCED plus Arsenal® Applicators Concentrate

Apply 2 to 4 quarts of this product with 4 fl. oz. to 8 fl. oz. of Arsenal Applicators Concentrate in 5 to 15 gallons of spray solution per acre as a broadcast spray to control big leaf maple resprouts. Where big leaf maple resprouts are not a primary concern, addition of 1 fl. oz. to 4 fl. oz. per acre of Arsenal Applicators Concentrate to the specified rate of this product will improve control of most other woody brush species, such as willow, pin cherry, dogwood, and vine maple.

Nonionic surfactants which are labeled for use with herbicides may be used. If used, add 2 quarts of nonionic surfactant per 100 gallons of spray solution. The tank mixtures may be applied by air (helicopter only).

Application timing

Big leaf maple resprouts should have vigorous growth prior to the application of these tank mixtures. Fall applications will provide best results.

Read and carefully observe the label directions, cautionary statements and all information on the labels of both products used in this tank mixture. Additional precautionary statements are made in these labels. Use according to the most restrictive label directions for each product in the mixture.

When used in combination as directed by HELM, the liability of HELM shall in no manner extend to any damage, loss or

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injury not directly caused by the inclusion of the HELM product in such combination use

21³ RAILROAD RIGHTS OF WAY

HELOSATE PLUS ADVANCED plus Diuron plus Atrazine

Apply when plants are actively growing Use the higher specified rates of these products where vegetation is heavy or dense or where hard to control species are prevalent Repeat applications may be necessary to maintain control where dense vegetation prevents good spray coverage Applications should be made when weeds are less than 12 inches tall for best results

Nonionic surfactants which are labeled for use with herbicides may be used Use 0.5 percent surfactant concentration (2 quarts per 100 gallons of spray solution) when using surfactants which contain at least 50 percent active ingredient or a 1 percent surfactant concentration (4 quarts per 100 gallons of spray solution) for those surfactants containing less than 50 percent active ingredient read and carefully observe surfactant cautionary statements and other information appearing on the surfactant label

Drift control additives may be used When a drift control additive is used read and carefully observe the cautionary statements and all other information appearing on the additive label

Read and carefully observe the label claims cautionary statements and all information on the labels of both products used in this tank mixture Use according to the most restrictive label directions for each product in the mixture When used in combination as directed by HELM the liability of HELM shall in no manner extend to any damage loss or injury not directly caused by the inclusion of the HELM product in such combination use

HELOSATE PLUS ADVANCED plus 2,4-D Amine plus Oust®

For control of trumpet creeper and johnsongrass

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE OF DESIRABLE TURFGRASSES TREES SHRUBS OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT

NOTE If spraying areas adjacent to desirable plants use a shield made of cardboard sheet metal or plyboard while spraying to help prevent spray from contacting foliage of desirable plants Repeat treatments may be necessary to control weeds regenerating from underground parts or seeds

HELOSATE PLUS ADVANCED does not provide residual weed control For subsequent weed control follow a label approved herbicide program

This product may be applied in noncrop sites as indicated in the MIXING ADDITIVES AND APPLICATION INSTRUCTIONS section unless otherwise directed

HELOSATE PLUS ADVANCED plus 2,4-D Amine

When applied as directed for noncrop uses HELOSATE PLUS ADVANCED when tank mixed with 2,4-D amine will provide burndown and control of trumpet creeper in railroad rights of way sites Apply 2 to 3 quarts of HELOSATE PLUS ADVANCED with 1 to 2 pints of 2,4-D amine in 25 to 40 gallons of total spray solution per acre to actively growing trumpet creeper Application should be made any time from early postemergence to before a killing frost Use the higher rates of these products when weed growth is heavy or dense

HELOSATE PLUS ADVANCED plus 2,4-D Amine plus Oust

When applied as directed for noncrop uses HELOSATE PLUS ADVANCED when tank mixed with 2,4-D amine and Oust will provide burndown control of johnsongrass and trumpet creeper Apply 2 to 3 quarts of HELOSATE PLUS ADVANCED with 1 to 2 pints of 2,4-D amine plus 2 to 4 ounces of Oust in 25 to 40 gallons of total spray solution per acre Application should be made any time from early postemergence to before a killing frost Use the higher rates of these products when weed growth is heavy or dense

Tank mixing and application instructions

Before using refer to the individual product labels for precautionary statements Do not apply this tank mixture drain or flush equipment on or near desirable trees or other plants on areas where their roots may extend or in locations where

Oust or 2 4 D amine may be washed or moved into contact with their roots

Fill the spray tank at least one third full of clean water Mix the specified amount of Oust in a separate container with sufficient water to make a smooth slurry Pour the slurry into the spray tank fill spray tank with the required amount of 2 4 D amine and HELOSATE PLUS ADVANCED and mix well before using Maintain agitation until spraying is completed

Before using refer to individual product labels for specific cleaning instructions

21⁴ Tank Mixtures for Noncrop Sites

When applied as a tank mixture this product provides control of the emerged annual weeds and partial control of the emerged perennial weeds listed in this label When applied as a tank mixture the following residual herbicides will provide pre emergence control of the weeds listed in the individual product labels

- HELOSATE PLUS ADVANCED plus Diuron
- HELOSATE PLUS ADVANCED plus Krovar[®] I
- HELOSATE PLUS ADVANCED plus Krovar II
- HELOSATE PLUS ADVANCED plus Ronstar[™] 50WP
- HELOSATE PLUS ADVANCED plus Simazine Princep[®] Caliber[®] 90
- HELOSATE PLUS ADVANCED plus Simazine 4L
- HELOSATE PLUS ADVANCED plus Simazine 80W
- HELOSATE PLUS ADVANCED plus Surflan[™] 75W
- HELOSATE PLUS ADVANCED plus Surflan AS

When tank mixing with residual herbicides add an agriculturally approved nonionic surfactant at 0.5 to 1% volume of spray solution See the MIXING ADDITIVES AND APPLICATION INSTRUCTIONS section of this label before preparing these tank mixtures

Read and carefully observe the label claims cautionary statements specified use rates and all other information on the labels of all products used in these tank mixtures Use according to the most restrictive label directions for each product in the mixture

HELOSATE PLUS ADVANCED plus Oust and 2 4 D Amine

When applied as directed this tank mixture will control or partially control labeled annual and perennial weeds in noncrop areas

Apply the specified rate of HELOSATE PLUS ADVANCED plus 1 to 2 pints of 2 4 D amine and 2 to 4 ounces of Oust in 25 to 40 gallons of total spray solution per acre Use the higher rates of these mixtures when weed growth is heavy or dense Do not apply this tank mixture drain or flush equipment on or near desirable trees or other plants on areas where their roots may extend or in locations where Oust or 2 4 D may be washed or moved into contact with their roots

HELOSATE PLUS ADVANCED plus Arsenal 2 WSL

When applied as directed this tank mixture will control or partially control labeled woody brush trees and herbaceous weeds in noncrop areas In addition to the weeds on this label this tank mixture will control arrowweed saltcedar and yaupon

21⁵ Hand held and high volume applications

Use 4 to 8 quarts of HELOSATE PLUS ADVANCED plus 1/2 to 4 pints of Arsenal 2 WSL per 100 gallons of spray solution Nonionic surfactants which are labeled for use with herbicides may be used If used add 2 quarts of nonionic surfactant per 100 gallons of spray solution Apply to foliage of actively growing vegetation Applications should be made on a spray to wet basis Spray coverage should be uniform and complete Do not spray to the point of runoff

21⁶ Broadcast applications with ground equipment

Use 2 to 5 quarts of HELOSATE PLUS ADVANCED plus 1/2 to 4 pints of Arsenal in sufficient water to apply in a total

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spray volume of 10 to 20 gallons per acre Apply to foliage of actively growing vegetation

21⁷ Aerial applications

Use 2 to 5 quarts of HELOSATE PLUS ADVANCED plus 1/4 to 4 pints of Arsenal in sufficient water to apply in a total spray volume of 10 to 20 gallons per acre Apply to foliage of actively growing vegetation

Apply to woody brush and trees after full leaf expansion until initiation of fall color

Avoid direct applications to any body of water Do not apply on ditches used to transport irrigation water

Read and carefully observe the label directions cautionary statements and all information on the labels of each product used in this tank mixture Additional precautionary statements are made on these labels use according to the most restrictive label directions for each product in the mixture

When used in combination as directed by HELM the liability of HELM shall in no manner extend to any damage loss or injury not solely and directly caused by the inclusion of the HELM product in such combination use

21⁸ Additional Tank Mixes for Noncrop Sites

When applied as a tank mixture the following herbicides will provide preemergence and/or postemergence control of the weeds listed in the individual product labels

The following list of products may be tank mixed with this product Any specified rate of this product may be used in a tank mixture with these products

Tank Mix Product	Rate per Acre
Arsenal*	0.5 to 4 pints
Banvel®	1 to 4 pints
2,4-D	0.5 to 1 pound
Garlon 3A	1 to 6 pints
Garlon 4	1 to 6 pints
Diuron	4 to 8 pounds
Diuron + 2,4-D	4 to 8 pounds + 0.5 to 1 pound
Diuron + Garlon 3A	4 to 10 pounds + 1 to 2 pints
Diuron + Garlon 4	4 to 10 pounds + 1 to 2 pints
Hyvar® X	4 to 8 pounds
Hyvar X + 2,4-D	4 to 8 pounds + 0.5 to 1 pound
Hyvar X + Garlon 3A	4 to 8 pounds + 1 to 2 pints
Hyvar X + Garlon 4	4 to 8 pounds + 1 to 2 pints
Krovar® I DF	4 to 6 pounds
Krovar I DF + 2,4-D	4 to 6 pounds + 0.5 to 1 pound
Krovar I DF + Garlon 3A	4 to 6 pounds + 1 to 2 pints

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Krovar I DF + Garlon 4	4 to 6 pounds + 1 to 2 pints
Oust	2 to 6 ounces
Oust + 2 4 D	2 to 6 ounces + 0 5 to 1 pound
Oust + Garlon 3A	2 to 6 ounces + 1 to 2 pints
Oust + Garlon 4	2 to 6 ounces + 1 to 2 pints
Spike® 80W	2 to 5 pounds
Spike 80W + 2 4 D	2 to 5 pounds + 0 5 to 1 pound
Spike 80W + Garlon 3A	2 to 5 pounds + 1 to 2 pints
Spike 80W + Garlon 4	2 to 5 pounds + 1 to 2 pints

*Arsenal is not approved for use in the state of California

Refer to the individual product labels for specific noncrop sites rates carrier volumes and precautionary statements Read and carefully observe the label claims cautionary statements specified use rates and all other information on the labels of all products used in these tank mixtures Use according to the most restrictive label directions for each product in the mixture

Maintain good agitation at all times during the mixing process Ensure that the tank mix products are well mixed with the spray solution before adding this product Mix only the quantity of spray solution which can be used during the same day Tank mixtures allowed to stand overnight may result in reduced weed control 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

Nonionic surfactants which are labeled for use with herbicides may be used Use a 0 5 percent surfactant concentration (2 quarts per 100 gallons of spray solution) Use surfactants that contain at least 50 percent active ingredient Read and carefully observe surfactant cautionary statements and other information appearing on the surfactant label

Drift control additives may be used When a drift control additive is used read and carefully observe the cautionary statements and all other information appearing on the additive label

When used in combination as directed by HELM the liability of HELM shall in no manner extend to any damage loss or injury not solely and directly caused by the inclusion of the HELM product in such combination use

Read and carefully observe the label claims cautionary statements specified use rates and all other information on the labels of all products used in these tank mixtures Use according to the most restrictive label directions for each product in the mixture

21⁹ Control of Emerged Weeds

NOTE For backpack sprayer and handgun applications see the HAND HELD AND HIGH VOLUME EQUIPMENT section for specified rates

Annual weeds Apply 1 quart per acre of this product in these tank mixtures when weeds are less than 6 inches tall and 1 5 quarts per acre when weeds are more than 6 inches tall

Perennial weeds For partial control of perennial weeds using tank mixtures apply 2 to 5 quarts per acre of this product Follow the directions in the WEEDS CONTROLLED section of this label for stage of growth and rate of application for specific perennial weeds

Pre emergence Weed Control

For pre emergence weed control refer to the individual product labels for specific noncrop sites rates carrier volumes and precautionary statements

Mix only the quantity of spray solution that can be used during the same day Do not allow these tank mixtures to stand overnight as this may result in reduced weed control

22⁰ FARMSTEAD WEED CONTROL

When applied as directed for NONCROP USES under conditions described this product controls undesirable vegetation listed on this label around farmstead building foundations along and in fences shelterbelts and for general nonselective farmstead weed control

For specific rates of application and instructions for control of various annual and perennial weeds see the WEEDS CONTROLLED section of this label

22¹ Farm Ditches

This product will suppress perennial grasses along farm ditches Apply this product at a rate of 6 to 8 fl oz per acre Use 8 fl oz per acre when treating tall (coarse) fescue fine fescue orchardgrass or quackgrass covers For best suppression of these species add ammonium sulfate at a rate of 1.7 pounds per 10 gallons of spray solution Use 6 fl oz per acre without ammonium sulfate when treating Kentucky bluegrass

Apply treatments in 10 to 20 gallons of spray solution per acre to actively growing perennial grass covers For best spray distribution and coverage use flat fan nozzles

Add nonionic surfactant at a rate of 0.5% of the spray solution

Where broadleaf weed control or suppression is desired tank mix this product with the appropriate labeled broadleaf weed herbicide

23⁰ CONSERVATION RESERVE PROGRAM (CRP ACRES)

This product can be used to control undesirable vegetation when rotating out of CRP acres or to suppress competitive growth and seed production of undesirable vegetation in CRP acres

For specific rates of application for various annual and perennial weeds see the WEEDS CONTROLLED section of this label

CRP applications may be made with wiper applicators or conventional spray equipment

For selective applications with broadcast spray equipment apply 12 to 16 fl oz per acre of this product 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 Some stunting of CRP perennial grasses will occur if applications are made when plants are not dormant

24⁰ HABITAT MANAGEMENT

This product is specified for the restoration and/or maintenance of native habitats and in wildlife management areas Apply as directed in the NONCROP USES section of this label

24¹ Habitat Restoration and Maintenance

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When applied as directed exotic and other undesirable vegetation may be controlled in habitat management areas Applications can be made to allow recovery of native plant species prior to planting desirable native species and for similar broad spectrum vegetation control requirements in habitat management areas Spot treatments can be made to selectively remove unwanted plants for habitat maintenance and enhancement For spot treatments care should be exercised to keep spray off desirable plants

24² Wildlife Food Plots

This product may be used as a site preparation treatment 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 applying this product before tilling

25⁰ ORNAMENTALS, TREE NURSERIES, AND CHRISTMAS TREES

DO NOT USE THIS PRODUCT AS AN OVER THE TOP BROADCAST SPRAY IN ORNAMENTALS AND CHRISTMAS TREES

NOTE Desirable plants may be protected from the spray solution by using shields or coverings made of cardboard or other impermeable material

When applied as instructed for the conditions described for NONCROP USES this product controls undesirable vegetation listed on this label prior to planting within and around greenhouses and shadehouses and as a post directed spray around established ornamentals and Christmas trees

For specific rates of application and instructions for control of various annual and perennial weeds see the WEEDS CONTROLLED section of this label

Where repeat applications are necessary do not exceed 10.6 quarts of this product per acre per year

Site Preparation

Following preplant applications of this product any ornamental nursery species or Christmas tree species may be planted Precautions should be taken to protect nontarget plants during site preparation applications

Greenhouse / Shadehouse Use

This product may be used to control weeds listed on this label that are growing inside greenhouses Desirable vegetation must not be present during application and air circulation fans must be turned off

Post directed Spray

Use a postdirected spray around established woody ornamental species nursery species or Christmas trees such as those listed below Care must be exercised to avoid contact of spray drift or mist with foliage or green bark of established ornamental species

Arborvitae	<i>Thuja spp</i>	Lilac	<i>Syringa spp</i>
Azalea	<i>Rhododendron spp</i>	Magnolia	<i>Magnolia spp</i>
Boxwood	<i>Buxus spp</i>	Maple	<i>Acer spp</i>
Crabapple	<i>Malus spp</i>	Oak	<i>Quercus spp</i>
Douglas fir	<i>Pseudotsuga spp</i>	Privet	<i>Ligustrum spp</i>
Euonymus	<i>Euonymus spp</i>	Pine	<i>Pinus spp</i>
Fir	<i>Abies spp</i>	Spruce	<i>Picea spp</i>
Jojoba	<i>Simmondsia chinensis</i>	Yew	<i>Taxus spp</i>
Hollies	<i>Ilex spp</i>		

26⁰ SILVICULTURAL SITES AND RIGHTS OF WAY

NOTE DO NOT USE AS AN OVER THE TOP BROADCAST SPRAY IN SILVICULTURAL NURSERIES

When applied as directed for NONCROP USES under conditions described this product controls undesirable vegetation listed on this label This product also suppresses or controls undesirable vegetation listed on this label when applied at specified rates for release of established coniferous species listed on this label

For specific rates of application and instructions for control of various brush annual and perennial weeds see the WEEDS CONTROLLED section of this label For specific rates of application for release of listed coniferous species see the Conifer Release part of this section of this label

Where repeat applications are necessary do not exceed 10 6 quarts of this product per acre per year

Aerial Application

This product may be applied using aerial spray equipment for silvicultural site preparation conifer release and rights of way treatments See the APPLICATION EQUIPMENT AND TECHNIQUES section of this label for information on how to apply this product by air

DO NOT APPLY THIS PRODUCT BY AIR TO RIGHTS OF WAY SITES IN THE STATE OF CALIFORNIA

Site Preparation

Following preplant applications of this product any silvicultural species may be planted

Post directed spray

In established silvicultural sites use a spray on the foliage of undesirable vegetation Care must be exercised to avoid contact of spray drift or mist with foliage or green bark of desirable species

Conifer Release

For release apply only where conifers have been established for more than one year Vegetation should not be disturbed prior to treatment or until visible symptoms appear after treatment Symptoms of treatment are slow to appear especially in woody species treated in late fall Injury may occur to conifers treated for release especially where spray patterns overlap or the higher rates are applied or when applications are made during periods of active conifer growth **Do not use additional surfactant with conifer release applications**

Applications must be made after formation of final conifer resting buds in the fall or prior to initial bud swelling in spring Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred Use the following rates for conifer release to control or partially control the weeds listed in the WEEDS CONTROLLED section of this label

For release of the following conifer species

Douglas fir	<i>Pseudotsuga spp</i>
Fir	<i>Abies spp</i>
Hemlock	<i>Tsuga spp</i>
Pine*	<i>Pinus spp</i>
Spruce	<i>Picea spp</i>

*Includes all species except eastern white pine loblolly pine or slash pine

Apply 1 5 to 2 quarts of this product per acre except in Washington and Oregon west of the crest of the Cascade Mountains For spring treatments west of the crest of the Cascade Mountains apply 1 quart of this product per acre before conifer bud swell for control of annual weeds For fall treatments in Washington and Oregon west of the crest of the Cascade Mountains apply 1 to 1 5 quarts of this product per acre before any major leaf drop of deciduous species For release of western hemlock apply 1 quart of this product per acre

For release of the following conifer species

Loblolly pine	<i>Pinus taeda</i>
Eastern white pine	<i>Pinus strobus</i>
Slash pine	<i>Pinus elliotii</i>

Late season application Apply 1.5 to 2 quarts of this product in a minimum of 5 gallons of spray solution per acre in early autumn. Applications made prior to September 1 or when conditions are conducive to rapid growth of conifers will create the potential for increased injury in the form of tip and/or needle burn. Injury may decrease with later applications. Some autumn colors are acceptable at the time of application. Apply prior to frost or leaf drop of undesirable plants. Applications made according to label directions will release loblolly pine, eastern white pine and slash pine by reducing competition from the following species:

Conifer Release Competing Species			
Ash	<i>Fraxinus spp</i>	Persimmon	<i>Diospyros spp</i>
Cherry black pin	<i>Prunus serotina</i> <i>Prunus pensylvanica</i>	Poplar yellow (tulip tree)	<i>Liriodendron tulipifera</i>
Elm	<i>Ulmus spp</i>	Sassafras	<i>Sassafras albidum</i>
Hawthorn	<i>Crataegus spp</i>	Sourwood	<i>Oxydendrum arboreum</i>
Locust black	<i>Robinia pseudoacacia</i>	Sumac poison smooth winged	<i>Rhus vernix</i> <i>Rhus glabra</i> <i>Rhus copallina</i>
Maple red	<i>Acer rubra</i>	Sweetgum	<i>Liquidambar styraciflua</i>
Oak black post southern red white	<i>Quercus velutina</i> <i>Quercus stellata</i> <i>Quercus falcata</i> <i>Quercus alba</i>		

Apply only to those sites where woody brush and trees listed in this label constitute the majority of the undesirable species.

HELOSATE PLUS ADVANCED Plus Oust Tank Mixtures for Conifer Release from Herbaceous Weeds

To release loblolly pines from herbaceous weeds, tank mixtures of this product with Oust will provide control of annual weeds listed in the WEEDS CONTROLLED section of this label and the Oust label, and partial control of the perennial weeds listed below.

Apply 16 to 24 fl. oz. of this product with 2 to 4 ounces of Oust in 10 to 30 gallons of spray solution per acre. Make application to actively growing weeds as a broadcast spray over the top of the young loblolly pines.

THIS PRODUCT PLUS OUST TANK MIXTURES MAY NOT BE APPLIED BY AIR IN CALIFORNIA

This tank mixture may be applied using aerial equipment. When applying by air, use the specified rate in 5 to 15 gallons of spray solution per acre.

For control of annual weeds below 12 inches in height (or runner length on annual vines), use the lower rates of both products. Use higher rates of both products when annual weeds are in more advanced stages of growth and approaching flower or seed formation.

Use the higher rates of both products for partial control of the following perennial weeds. Use the lower rates for suppression of growth.

HELOSATE PLUS ADVANCED Plus Oust Tank Mix Conifer Release Partially Controlled Perennial Weeds			
Bahiagrass	<i>Paspalum notatum</i>	Johnsongrass*	<i>Sorghum halepense</i>
Broomsedge	<i>Andropogon virginicus</i>	Poorjoe*	<i>Diodia teres</i>
Dock curly	<i>Rumex crispus</i>	Trumpet creeper**	<i>Campsis radicans</i>
Dogfennel	<i>Eupatorium capillifolium</i>	Vaseygrass	<i>Paspalum urvillei</i>
Fescue tall	<i>Festuca arundinacea</i>	Vervain blue	<i>Verbena hastata</i>

*Control at higher rates

**Suppression at higher rates only

Pine damage may occur or can be accentuated if treatment takes place when young trees are under stress from drought flood water insects or disease

Read and observe the cautionary statements and all other information appearing on the labels of all herbicides used

HELOSATE PLUS ADVANCED plus Arsenal Applicators Concentrate Tank Mixture for Forestry Conifer Release (Maine New Hampshire and Vermont Only)

Apply a mixture of 2 quarts of this product and 1 to 2.5 fl oz of Arsenal Applicators Concentrate per acre as a release treatment for balsam fir and red spruce

Use this mixture for controlling woody brush deciduous trees and herbaceous weeds on sites regenerated with balsam fir and red spruce Make applications only after formation of final resting buds on these conifers Use the higher specified rates for sites with dense tough to control woody brush and deciduous trees

When using ground application equipment use 10 to 60 gallons of spray solution per acre For aerial application (helicopter only) use 5 to 15 gallons of spray solution per acre

Injury may occur to conifers treated for release especially where spray patterns overlap Injury can be accentuated if applications are made when conifers are actively growing or are under stress Read and carefully observe the label claims cautionary statements and all information on the label for all products used

NOTE TO USER This product must NOT be used in areas where adverse impact on federally designated endangered/threatened plant or aquatic species is likely Prior to making applications the user of this product must determine no such species are located in or immediately adjacent to the area to be treated

27⁰ CUT STUMP TREATMENTS

Woody vegetation may be controlled by treating freshly cut stumps of trees and resprouts with this product Apply this product using suitable equipment to ensure coverage of the entire cambium Cut vegetation close to the soil surface Apply a 50 to 100% solution of this product to the freshly cut surface immediately after cutting Delays in application may result in reduced performance For best results application should be made during periods of active growth and full leaf expansion

When used according to directions for cut stump application this product will CONTROL PARTIALLY CONTROL or SUPPRESS many types of woody brush and tree species some of which are listed below

Partial List Species Controlled or Suppressed Cut Stump Application			
Alder	<i>Alnus spp</i>	Saltcedar	<i>Tamarix spp</i>
Eucalyptus	<i>Eucalyptus spp</i>	Sweetgum	<i>Liquidambar styraciflua</i>
Madrone	<i>Arbutus menziesii</i>	Tanoak	<i>Lithocarpus densiflorus</i>

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Oak	<i>Quercus spp</i>	Willow	<i>Salix spp</i>
Reed giant	<i>Arundo donax</i>		

28⁰ INJECTION AND FRILL APPLICATIONS

Woody vegetation may be controlled by injection or frill application of this product. Apply this product using suitable equipment which must penetrate into living tissue. Apply the equivalent of 1 ml of this product per each 2 to 3 inches of trunk diameter (DBH). This is best achieved by applying a 50 to 100% concentration of this material either to a continuous frill around the tree or as cuts evenly spaced around the tree below all branches. As tree diameter increases in size, better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings. Avoid application techniques that allow runoff to occur from frill or cut areas in species that exude sap freely after frills or cutting. In species such as this, make frill or cut at an oblique angle so as to produce a cupping effect and use undiluted material. For best results, application should be made during periods of active growth and after full leaf expansion.

Species Controlled or Suppressed Injection and Frill Applications			
This treatment WILL CONTROL the following woody species			
Oak	<i>Quercus spp</i>	Sweetgum	<i>Liquidambar styraciflua</i>
Poplar	<i>Populus spp</i>	Sycamore	<i>Platanus occidentalis</i>
This treatment WILL SUPPRESS the following woody species			
Black gum	<i>Nyssa sylvatica</i>	Hickory	<i>Carya spp</i>
Dogwood	<i>Cornus spp</i>	Maple red	<i>Acer rubrum</i>

HYBRID POPLAR (*Populus spp*) PRODUCTION

Preplant Use this product prior to planting *Populus spp*. This includes, but is not limited to, hybrid poplars and hybrid cottonwoods.

See the WEEDS CONTROLLED section of this label for specific rates for the weeds being controlled.

Directed Sprays Use a 2 percent spray solution as a spray to wet application for the control of undesirable woody brush and trees. To control herbaceous weeds, use a 1 to 2 percent solution. Avoid contact of spray drift or mist with foliage, green bark, or non-woody surface roots of *Populus spp*.

Mix 2 to 6 quarts of a nonionic surfactant per 100 gallons of spray solution (0.5 to 1.5 percent spray volume). Use a surfactant with greater than 70 percent active ingredient.

Wipers This product may be used through wick or other suitable wiper applicators for control or partial control of grass and broadleaf weeds listed on this label.

For wick applicators, mix 1 gallon of this product with 2 gallons water to make a 33% solution. For wiper systems that can handle thicker solutions, such as force fed systems, a 33% to 100% HELOSATE PLUS ADVANCED solution may be used.

For best results, ensure that the herbicide solution is allowed to contact the maximum amount of leaf surface. As weed densities increase, decrease equipment speed to allow sufficient herbicide flow to wet all weed surfaces contacted. Weeds not contacted will be unaffected.

AVOID HERBICIDE CONTACT WITH DESIRABLE VEGETATION Desirable vegetation contacted by the herbicide solution may be injured or controlled. This includes foliage, fruit, or green stems.

29⁰ TURFGRASSES AND GRASSES FOR SEED PRODUCTION

Preplant and Renovation

When applied as directed for NONCROP USES under conditions described this product controls most existing vegetation prior to the planting or renovation of either turfgrasses or grass seed production areas For specific rates of application and instructions for control of various annual and perennial weeds and woody brush and trees see the WEEDS CONTROLLED section of this label

For maximum control of existing vegetation delay planting to determine if any regrowth from escaped underground plant parts occurs Where repeat treatments are necessary sufficient regrowth must be attained prior to application For warm season grasses such as Bermuda grass summer or fall applications provide best control

DO NOT DISTURB SOIL OR UNDERGROUND PLANT PARTS BEFORE TREATMENT Tillage or renovation techniques such as vertical mowing coring or slicing should be delayed for 7 days after application to allow proper translocation into underground plant parts

Turfgrasses Where existing vegetation is growing in a field or unmowed situation apply this product to actively growing weeds at the stages of growth listed in the WEEDS CONTROLLED section of this label 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 turfgrasses may be planted following the above procedures

Grasses for seed production Apply this product to actively growing weeds at the stages of growth as directed in the WEEDS CONTROLLED section of this label prior to planting or renovation of turf or forage grass areas grown for seed production

DO NOT feed or graze treated areas within 8 weeks after application

Annual Weed Control in Dormant Bermuda Grass and Bahiagrass Turf

When applied as directed for NONCROP USES under the conditions described this product will provide control or suppression of many winter annual weeds and tall fescue for effective release of dormant Bermuda grass and bahiagrass turf Refer to the rate table Weeds Controlled or Suppressed with HELOSATE PLUS ADVANCED Alone under the RELEASE OF BERMUDA GRASS OR BAHIAGRASS section of this label for specified rates and volumes on the species to be suppressed or controlled Treat only when turf is dormant and prior to spring greenup Spot treatments or broadcast applications of this product in excess of 16 fl oz per acre may result in injury or delayed greenup in highly maintained turfgrass areas i.e. golf courses lawns etc DO NOT APPLY TANK MIXTURES of this product plus Oust in highly maintained turfgrass areas

29¹ Release Of Bermuda Grass Or Bahiagrass

NOTE Use only in areas where Bermuda grass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated Use tank mixtures of this product plus Oust only on railroads highways utility plant sites or other right of way areas

When applied as directed for NONCROP USES under the conditions described this product will provide control or suppression of many winter annual weeds and tall fescue for effective release of dormant Bermuda grass or bahiagrass This product may be tank mixed with Oust as directed for residual control Make applications to dormant Bermuda grass or bahiagrass Tank mixtures of this product plus Oust may delay greenup To avoid delays in greenup and minimize injury do not add more than 1 ounce per acre of Oust on Bermuda grass or more than 0.5 ounce per acre on bahiagrass or treat when these grasses are in a semi dormant condition

For best results on winter annuals treat when plants are in an early growth stage (below 6 inches in height) after most have germinated For best results on tall fescue treat when fescue is in or beyond the 4 to 6 leaf stage

Weeds Controlled

Rate instructions for control or suppression of winter annuals and tall fescue are listed below

Apply the specified rates of this product alone or as a tank mixture in 10 to 25 gallons of water plus 0.5 to 1% nonionic surfactant by total spray volume per acre

For the best directions for the mixture of weeds within your geographic area contact your sales representative

Release of Bermuda Grass or Bahiagrass

Weeds Controlled or Suppressed with HELOSATE PLUS ADVANCED Alone*

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Weed species		HELOSATE PLUS ADVANCED fl oz / acre					
		8	12	16	24	32	64
Barley little	<i>Hordeum pusillum</i>	s	c	c	c	c	c
Bedstraw catchweed	<i>Galium aparine</i>	s	c	c	c	c	c
Bluegrass annual	<i>Poa annua</i>	s	c	c	c	c	c
Chervil	<i>Chaerophyllum tainturieri</i>	s	c	c	c	c	c
Chickweed common	<i>Stellaria media</i>	s	c	c	c	c	c
Clover crimson	<i>Trifolium incarnatum</i>		s	s	c	c	c
Clover large hop	<i>Trifolium campestre</i>		s	s	c	c	c
Fescue tall	<i>Festuca arundinacea</i>					s	s
Geranium Carolina	<i>Geranium carolinianum</i>			s	s	c	c
Henbit	<i>Lamium amplexicaule</i>		s	c	c	c	c
Ryegrass common or Italian	<i>Lolium multiflorum</i>			s	c	c	c
Speedwell corn	<i>Veronica arvensis</i>	s	c	c	c	c	c
Vetch common	<i>Vicia sativa</i>			s	c	c	c

*These rates apply only to sites where an established competitive turf is present
 c = control s = suppression

**Release of Bermuda Grass or Bahiagrass
 Weeds Controlled or Suppressed with HELOSATE PLUS ADVANCED Plus Oust***

Weed species		HELOSATE PLUS ADVANCED (fl oz /a) + Oust (oz /a)						
		8	12	12	16	16	12	16
		+ 1/4	+ 1/4	+ 1/2	+ 1/4	+ 1/2	+ 1	+ 1
Barley little	<i>Hordeum pusillum</i>	c	c	c	c	c	c	c
Bedstraw catchweed	<i>Galium aparine</i>	c	c	c	c	c	c	c
Bluegrass annual	<i>Poa annua</i>	s	c	c	c	c	c	c
Chervil	<i>Chaerophyllum tainturieri</i>	c	c	c	c	c	c	c
Chickweed common	<i>Stellaria media</i>	s	c	c	c	c	c	c
Clover crimson	<i>Trifolium incarnatum</i>	s	s	s	s	c	c	c
Clover large hop	<i>Trifolium campestre</i>			s	s	s	c	c

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Fescue tall	<i>Festuca arundinaceae</i>						s	s
Geranium Carolina	<i>Geranium carolinianum</i>		s	s	c	c	c	c
Henbit	<i>Lamium amplexicaule</i>		s	c	c	c	c	c
Ryegrass common or Italian	<i>Lolium multiflorum</i>		s	s	c	c	c	c
Speedwell corn	<i>Veronica arvensis</i>	s	c	c	c	c	c	c
Vetch common	<i>Vicia sativa</i>	c	c	c	c	c	c	c

* These rates or mixtures of rates apply only to sites where an established competitive turf is present
 c = control s = suppression

Release of Actively Growing Bermuda Grass

When applied as directed this product will aid in the release of Bermuda grass by providing control of annual species listed in the WEEDS CONTROLLED section of this and the Oust label and suppression or partial control of certain perennial weeds

For control or suppression of those annual species listed on this label use 1 to 3 pints of this product as a broadcast spray in 10 to 25 gallons of spray solution per acre Use the lower rate when treating annual weeds below 6 inches in height (or length of runner in annual vines) Use the higher rate as weeds increase in size or as they approach flower or seedhead formation

Use the higher rate of this product for partial control of the following perennial species Use the lower rate for suppression of growth For best results see the WEEDS CONTROLLED section of this label for proper stage of growth

**For Bermuda Grass Release
 Use the Higher Rate for Partial Control of the Following Perennial Species**

Bahiagrass	<i>Paspalum notatum</i>	Johnsongrass*	<i>Sorghum halepense</i>
Bluestem silver	<i>Andropogon saccharoides</i>	Trumpet creeper**	<i>Campsis radicans</i>
Fescue tall	<i>Festuca arundinacea</i>	Vaseygrass	<i>Paspalum urvillei</i>

* Control at higher rates ** Suppression at higher rates only

This product may be tank mixed with Oust If tank mixed use no more than 1 to 2 pints per acre of this product with 1 to 2 ounces of Oust per acre

Use the lower rates of both mixtures to control annual weeds below 6 inches in height (or runner length in annual vines) that are listed in the WEEDS CONTROLLED section of this booklet and the Oust label Use the higher rates as annual weeds increase in size and approach the flower and seedhead stages

Use the higher rates of this product to provide partial control of the following perennial weeds Use the lower rates for suppression of growth

**For Bermuda Grass Release
 Use the Higher Rates of HELOSATE PLUS ADVANCED Plus Oust for Partial Control
 of the Following Perennial Species**

Bahiagrass	<i>Paspalum notatum</i>	Johnsongrass*	<i>Sorghum halepense</i>
Bluestem silver	<i>Andropogon saccharoides</i>	Poorjoe**	<i>Diodia teres</i>
Broomsedge	<i>Andropogon virginicus</i>	Trumpet creeper*	<i>Campsis radicans</i>
Dock curly	<i>Rumex crispus</i>	Vaseygrass	<i>Paspalum urvillei</i>
Dogfennel	<i>Eupatorium capilliflorum</i>	Vervain blue	<i>Verbena hastata</i>

75/75

Fescue tall	<i>Festuca arundinacea</i>		
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* suppression at higher rates only

** control at the higher rates

Use only on well established Bermuda grass Bermuda grass injury may result from the treatment but regrowth will occur under moist conditions Do not repeat applications in the same season since severe injury may result Read and carefully observe all cautionary statements and all other information appearing on the labels of all herbicides used

29² Cool Season Turf Growth Regulation

When applied as directed this product will suppress growth and seedhead development of listed turf species in industrial sites

Use this product for management of coarse turf on roadside rights of way or other industrial areas Do not use on high quality turf or other areas where turf color changes cannot be tolerated Slight turf discoloration may occur but turf will regreen and regrow under moist conditions as effects of this product will wear off

Apply 4 to 6 fl oz of this product per acre alone or in a specified tank mixture Use spray volumes of 10 to 40 gallons per acre

When using this product mix 2 quarts of a nonionic surfactant per 100 gallons of spray solution

This product can be used for growth and seedhead suppression of

Tall fescue	Smooth brome
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For best results apply this product in a specified tank mixture to actively growing turfgrasses after greenup in the spring of the year or suppression of seedheads applications must be made before boot to seedhead stage of development Applications made from seedhead emergence until maturity may result in turf discoloration or injury After mowing or removal of seedheads this product in a specified tank mixture may also be used to suppress the growth of certain turfgrasses Allow turf to recover from stress caused by heat drought or mowing before making applications Applications made to turf under stress may increase the potential for discoloration or injury

Annual Grasses

For growth suppression of some annual grasses such as annual ryegrass wild barley and wild oats apply 3 to 4 fl oz of this product in 10 to 40 gallons of spray solution per acre Applications should be when annual grasses are actively growing and before the seedheads are in the boot stage of development Treatments made after seedhead emergence may cause injury to the desired grasses

Tank Mixtures

For the following tank mixtures consult each product label for weeds controlled and the correct stage of application Do not treat turf under stress

Tank mixtures plus 2 4 D Amine For additional weed control benefits up to 1 pound active ingredient per acre of 2 4 D amine may be added to the following tank mixtures Consult the label for 2 4 D amine for weeds controlled

Tall Fescue

HELOSATE PLUS ADVANCED plus Telar[®] For suppression of tall fescue growth and seedheads and control or partial control of some annual weeds apply this tank mixture after greenup and prior to boot to seedhead stage of development Use up to 0 5 ounce of Telar per acre

This tank mixture can also be applied after mowing or removal of tall fescue seedheads for turf growth suppression Make only one of the above applications per growing season

HELOSATE PLUS ADVANCED plus Oust For suppression of tall fescue growth and seedheads and control or partial control of some annual weeds apply this tank mixture after greenup and prior to boot to seedhead stage of development Use up to 0 25 ounce of Oust per acre

HELOSATE PLUS ADVANCED plus Escort[®] This tank mixture can be applied after mowing or removal of tall fescue seedheads for turf growth suppression and control or partial control of some annual weeds Use up to 1/3 ounce of Escort per acre

7/1/75

Smooth Brome

HELOSATE PLUS ADVANCED plus Oust For suppression of smooth brome growth and seedheads and control or partial control of some annual weeds apply this tank mixture after greenup and prior to boot to seedhead stage of development Use up to 0.25 ounce of Oust per acre

29³ Bahiagrass Seedhead And Vegetative Suppression

When applied as directed in the indicated noncrop areas (roadsides airports golf course roughs and plant sites) this product will provide significant inhibition of seedhead emergence and will suppress vegetative growth for a period of approximately 45 days with single applications and approximately 120 days with sequential applications

Apply this product 1 to 2 weeks after full greenup of bahiagrass or after bahiagrass has been mowed to a uniform height of 3 to 4 inches Applications must be made prior to seedhead emergence Apply 6 fl oz per acre of this product plus 0.5 to 1% nonionic surfactant by total spray volume in 10 to 25 gallons of water per acre

Sequential applications of this product plus 0.5 to 1% nonionic surfactant by total spray volume may be made at approximately 45 day intervals to extend the period of seedhead and vegetative growth suppression For continued seedhead suppression sequential applications must be made prior to seedhead emergence Apply no more than 2 sequential applications per year As a first sequential application apply 4 fl oz of this product per acre plus nonionic surfactant A second sequential application of 2 to 4 fl oz per acre plus nonionic surfactant may be made approximately 45 days after the last application

A tank mixture of this product plus Oust may be applied only on roadsides for seedhead inhibition and vegetative suppression Apply 6 fl oz per acre of this product plus 0.25 ounce per acre of Oust plus 0.5 to 1% nonionic surfactant by total spray volume 1 to 2 weeks following an initial spring mowing When using this product plus Oust for suppression of bahiagrass make only 1 application per year

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SALE AND WARRANTY**

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submit amendment revising Section 6 0 and 6 1 (Spray Drift & separating Precautionary and Restriction Statements)