Dear Dr. Volger:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10. The CSFs submitted with your application have been stamped “Notification” and placed in our files.

Please note that the record for this product currently contains the following CSF:

- Basic CSF dated 08/11/14

Any CSFs other than those listed above are superseded/no longer valid. If you have any questions, please contact Maggie Rudick at (703) 347-0257 or rudick.maggie@epa.gov.

Sincerely,

Kable Bo Davis
Product Manager 25
Herbicide Branch
Registration Division (7505P)
**Application for Pesticide - Section I**

1. Company/Product Number
   - 74530-43

2. Company/Product (Name)
   - Helosate Plus Advanced Herbicide

3. EPA Product Manager
   - Kable Bo Davis

4. OPP Identifier Number
   - 268793

5. Name and Address of Application (Include ZIP Code)
   - Helm Agro US, Inc.
   - 4042 Park Oaks Blvd., Suite 330
   - Tampa, FL 33610

6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:

   - [ ] None
   - [ ] Restricted

**Section - II**

- [ ] Amendment - Explain below.
- [ ] Resubmission
- [x] Notification - Explain below.

**Explanation:**
Notification per PRN 98-10 & 2007-4: This notification is consistent with the provisions of PR Notice 98-10 & 2007-4, and EPA Regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the Confidential Statement of Formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make false statements to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 & 2007-4, and 40 CFR 152.46, this product may be in violation of FIFRA, and I may be subject to enforcement action and penalties under Sections 12 and 14 of FIFRA.

**Contact:** bertvolger@comcast.net

**Section - III**

1. Material This Product Will Be Packaged In:
   - Child-Resistant Packaging
     - [ ] Yes
     - [ ] No
   - Unit Packaging
     - [ ] Yes
     - [ ] No
   - Water Soluble Packaging
     - [ ] Yes
     - [ ] No

2. Type of Container
   - [ ] Metal
   - [ ] Plastic
   - [ ] Glass
   - [ ] Paper
   - [ ] Other (Specify)

3. Location of Net Contents Information
   - [ ] Label
   - [ ] Container

4. Size(s) Retail Container
   - 2.5, 5, 30 gal.

5. Location of Label Directions
   - On Label
   - On Labeling accompanying product

6. Manner in Which Label is Affixed to Product
   - Lithograph
   - Paper glued
   - Stenciled

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application):
   - Name: Bert Volger, Ph.D.
   - Title: Agent for HELM Agro US, Inc.
   - Telephone No. (Include Area Code): Phone: 610-793-3222
   - Fax: 610-793-1708

2. Signature
   - Bert Volger

3. Title
   - Agent for HELM Agro US, Inc.

4. Typed Name
   - Bert Volger

5. Date
   - 8/11/2014

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EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

White - EPA File Copy (original)  Yellow - Applicant Copy
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
One Potomac Yard, Room S-4900
2777 S. Crystal Drive
Arlington, VA 22202-4501

Attention: Mr. Kable Bo Davis
Registration Manager (PM-25)

Subject: Helosate Plus Advanced Herbicide (EPA-Reg.No.74530-43),
Notification: Submission of Updated CSF (basic) per PRN 98-10

Dear Mr. Davis:

Helm Agro US, Inc. is submitting this Notification to the Agency to update the basic CSF for the subject product as allowed under PR Notice 98-10. This CSF supersedes the approved CSF dated May 8, 2013. The changes are related to:

- Company Address change
- Add additional Formulation Facilities and Technical Sources

Please find enclosed the following supporting documents for this notification:

1. Application for registration (EPA Form 8570-1) including Certification Statements consistent with PR-Notice 98-10
2. Two copies of revised, updated basic CSF dated 8/11/2014 (EPA Form 8570-4)
3. One copy of superseded, basic CSF dated 5/8/2013 (EPA Form 8570-4)

Please do not hesitate to contact me at 610-793-3222 or by e-mail: bertvolger@comcast.net, if you have any questions.

Sincerely,

Bert Volger, Ph.D
Agent for
HELM Agro US, Inc.

Cc: J. Stechmann
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.

**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.*

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

EPA Reg. No. 74530-43

EPA Est. No. 62171-MS-001

Manufactured By:
HELM AGRO US, Inc. • 4042 Park Oaks Blvd. • Suite 330 • Tampa, Florida 33610
## 2. PRECAUTIONARY STATEMENTS

### 2.1 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.

### 2.2 IMPORTANT PHONE NUMBER

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-930

### 2.3 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 170.250 (a) (4)), 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.

### 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 unsat.

### 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.

2
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.

Agricultural Use Requirements

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

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

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

3. 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 in another chemical or processed 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 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 half 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 or 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 half full with water and recap. Shake for 30 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 or 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 or more times. Dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

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 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 in 1 to 2 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.
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 run-off.

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.

4 Weed Resistance Management

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.

4 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 the local retailer.

4 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 after they become established.
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 weeds as the occurrence of new glyphosate-resistant weeds cannot be determined until after the product use and scientific confirmation.

5 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.
5. 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.

5. 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, and 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 bypass and return lines at the bottom of the tank and, if needed, use an approved anti-foam or defoaming agent.

5. 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 foliar 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, 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 and 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 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 surfactants are 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 surfactants.

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

Under no circumstances 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.
5. Additive Instructions

**ADDITIVES**

**5. Sulfactants:**
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 SURFACANT OR ADDITIVES CONTAINING SURFACANT TO THIS PRODUCT FOR PREHARVEST APPLICATIONS TO COTTON.

**5. 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 nozzle lines. Ensure the ammonium sulfate is completely dissolved in the spray tank before adding herbicides or surfactant. Thoroughly rinse the sprayer 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 surfactants. Do not use herbicide rates lower than specified in this label. Using lower rates will result in reduced performance.

**5. 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.

**5. Drift Control**

Do not apply within 100 feet of all desirable vegetation or crop(s).

2. If wind is blowing 5 miles per hour or more 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 spray when winds are in excess of 10 miles per hour or when inversion conditions exist.

**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.**

**SPRAY DRIFT MANAGEMENT**

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 airstream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they should be observed.

**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 is blowing at 5 miles per hour or more toward desirable vegetation or crop(s), do not apply within 500 feet of the desirable vegetation or crop(s).

3. If wind is 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 airstream 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, the up- and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upward. Swath adjustment distance should increase with increasing wind 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. The cloud can move in unpredictable directions due to light variable winds common during inversions. Temperature inversions are characterized by increasing temperature 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 stays 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.

6 For Aerial Application in California Only

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. IF 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.

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.
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 Commission, 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.

6* 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 non-target 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 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.

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 helicopters

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

Hand-Held and High Volume Spray Equipment - Knapsack and backpack sprayers, pump-up pressure sprayers, handguns, handwands, mistblowers, 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 injection 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.
7.1 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 a Fresno County Agricultural Commissioner approved fly-in 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.

7.2 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 and conventional-tillage systems, fallow and reduced tillage systems; preharvest, silvicultural sites and rights-of-way. Refer to the individual use areas 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 application with nozzles 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 produce sprays 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 overapplied 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.

7.3 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.

7.4 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.

7.5 Hand-Held and High-Volume Equipment

Use coarse sprays only.

Mix the 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 seed head formation in grass or bud formation in broadleaf weeds. Allow three or more days before tillage or mowing.

For annual weeds above 6 inches tall, or when not using additional surfactant, or unless otherwise specified, use a 1% solution. For best results, use a 1% 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**

<table>
<thead>
<tr>
<th>Desired volume</th>
<th>Amount of HELOSATE PLUS ADVANCED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1/2 %</td>
</tr>
<tr>
<td>1 gallon</td>
<td>2/3 oz.</td>
</tr>
<tr>
<td>25 gallons</td>
<td>1 pt.</td>
</tr>
<tr>
<td>100 gallons</td>
<td>2 qt.</td>
</tr>
</tbody>
</table>

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.

### 7° 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 desirable 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.

### 7° 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:

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

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.

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

### 7° 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.

<table>
<thead>
<tr>
<th>When applied as specified under the conditions described for Wiper Applicators, this product CONTROLS the following weeds:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Annual Grasses</strong></td>
</tr>
<tr>
<td>Corn</td>
</tr>
<tr>
<td>Panicum, Texas</td>
</tr>
<tr>
<td>Rye, common</td>
</tr>
<tr>
<td>Shattercane</td>
</tr>
<tr>
<td><strong>Annual Broadleafes</strong></td>
</tr>
<tr>
<td>Sicklepod</td>
</tr>
<tr>
<td>Spanishneedles</td>
</tr>
<tr>
<td>Starbush, bristly</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>When applied as specified under the conditions described for Wiper Applicators, this product SUPPRESSES the following weeds:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Annual Broadleaves</strong></td>
</tr>
<tr>
<td>Beggarweed, Florida</td>
</tr>
<tr>
<td>Dogfennel</td>
</tr>
<tr>
<td>Pigweed, redroot</td>
</tr>
<tr>
<td>Ragweed, common</td>
</tr>
<tr>
<td>Ragweed, giant</td>
</tr>
<tr>
<td>Sunflower</td>
</tr>
<tr>
<td>Thistle, musk</td>
</tr>
<tr>
<td>Velveteen</td>
</tr>
</tbody>
</table>

| **Perennial Grasses**                                                                                                              |
| Bermudagrass                                                          | Cynodon dactylon |
| Guineagrass                                                           | Panicum maximum |
| Johnsongrass                                                          | Sorghum halepense |
| Smurfgrass                                                            | Sperobolus spicatus |
| Vaseygrass                                                            | Paspalum urvillei |

| **Perennial Broadleaves**                                                                                                           |
| Dogbane, hemp                                                         | Apocynum cannabinum |
| Milkweed                                                              | Asclepias syriaca |
| Nightshade, silverleaf                                                | Solanum elaeagnifolium |
| Thistle, Canada                                                       | Cirsium arvense |

### 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.

### WEEDS CONTROLLED

#### Low-Volume Broadcast Application (Low-Rate Technology)

When applied as specified 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.
- 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.

<table>
<thead>
<tr>
<th>Weed Species</th>
<th>Maximum Height - Length</th>
<th>Rate per Acre* (fl oz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foxtail</td>
<td>12&quot;</td>
<td>12 oz.</td>
</tr>
<tr>
<td>Barnyardgrass</td>
<td>6&quot;</td>
<td>12 oz.</td>
</tr>
<tr>
<td>Bluegrass, annual</td>
<td>6&quot;</td>
<td>12 oz.</td>
</tr>
<tr>
<td>Brome downy**</td>
<td>6&quot;</td>
<td>12 oz.</td>
</tr>
<tr>
<td>Mustard, blue</td>
<td>6&quot;</td>
<td>12 oz.</td>
</tr>
<tr>
<td>Mustard, tansy</td>
<td>6&quot;</td>
<td>12 oz.</td>
</tr>
<tr>
<td>Mustard, tumble</td>
<td>6&quot;</td>
<td>12 oz.</td>
</tr>
<tr>
<td>Mustard, wild</td>
<td>6&quot;</td>
<td>12 oz.</td>
</tr>
<tr>
<td>Spurry, umbrella</td>
<td>6&quot;</td>
<td>12 oz.</td>
</tr>
<tr>
<td>Barley</td>
<td>12&quot;</td>
<td>12 oz.</td>
</tr>
<tr>
<td>Rye</td>
<td>12&quot;</td>
<td>12 oz.</td>
</tr>
<tr>
<td>Sandbur, field</td>
<td>12&quot;</td>
<td>12 oz.</td>
</tr>
<tr>
<td>Shattercane</td>
<td>12&quot;</td>
<td>12 oz.</td>
</tr>
<tr>
<td>Stinkgrass</td>
<td>12&quot;</td>
<td>12 oz.</td>
</tr>
<tr>
<td>Wheat</td>
<td>12&quot;</td>
<td>12 oz.</td>
</tr>
<tr>
<td>Morningglory</td>
<td>2&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Sicklepod</td>
<td>2&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Bluegrass, bulbous</td>
<td>6&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Cheat</td>
<td>6&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Chickweed, common</td>
<td>6&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Chickweed, mousear</td>
<td>6&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Corn</td>
<td>6&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Goatgrass, jointed</td>
<td>6&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Groundsel, common</td>
<td>6&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Henbit</td>
<td>6&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Pennycress, field (fanweed)</td>
<td>6&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Rocket, London</td>
<td>6&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Ryegrass, common or Italian</td>
<td>6&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Shepherd's purse</td>
<td>6&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Horseweed / marestail</td>
<td>6&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Lambquarters, common</td>
<td>6&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Spurge, annual</td>
<td>6&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Buttercup</td>
<td>12&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Cockelbur</td>
<td>12&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Crabgrass</td>
<td>12&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Dwarfsandling</td>
<td>12&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Falstaff, smallseed</td>
<td>12&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Foxtail, Carolina</td>
<td>12&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Johnsongrass, seedling</td>
<td>12&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Oats, wild</td>
<td>12&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Panicum, fall</td>
<td>12&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Panicum, Texas</td>
<td>12&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Pigweed, redroot</td>
<td>12&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Pigweed, smooth</td>
<td>12&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Witchgrass</td>
<td>12&quot;</td>
<td>16 oz.</td>
</tr>
<tr>
<td>Weed Species</td>
<td>Maximum Height - Length</td>
<td>Rate per Acre*</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td><strong>Weed Species</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For water volumes, surfactant and/or additives, see above</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Weed Species</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Signalgrass, broadleaf</strong></td>
<td>6”</td>
<td>24 oz.</td>
</tr>
<tr>
<td><strong>Sprangletop</strong></td>
<td>6” to 12”</td>
<td>32 oz.</td>
</tr>
<tr>
<td><strong>Geranium, Carolina</strong></td>
<td>12”</td>
<td>32 oz.</td>
</tr>
<tr>
<td><strong>Goosegrass</strong></td>
<td>12”</td>
<td>32 oz.</td>
</tr>
<tr>
<td><strong>Primrose, cutleaf evening</strong></td>
<td>6” to 12”</td>
<td>32 oz.</td>
</tr>
<tr>
<td><strong>Spanishneedles</strong></td>
<td>12”</td>
<td>32 oz.</td>
</tr>
<tr>
<td><strong>Filaree</strong></td>
<td>12”</td>
<td>48 oz.</td>
</tr>
<tr>
<td><strong>Rice, red</strong></td>
<td>4”</td>
<td>32 oz.</td>
</tr>
<tr>
<td><strong>Teaweed</strong></td>
<td>4”</td>
<td>32 oz.</td>
</tr>
<tr>
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<td>6”</td>
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<td>48 oz.</td>
</tr>
</tbody>
</table>

* 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. 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 the following annual grasses and broadleaf weeds when less than the height indicated:

- Cocklebur (12")
- Horseweed/marestail (6")
- Kochia* (6")
- Lambquarters (12")
- Lettuce, prickly (6")
- Morningglory (6")
- Pigweed, redroot (12")
- Pigweed, smooth (12")
- Thistle, Russian (12")
- Ipomoea spp.
- Xanthium strumarium
- Conyza canadensis
- Kochia scoparia
- Chenopodium album
- Lactuca serriola
- Ipomea spp.
- Amaranthus retroflexus
- Amaranthus hybridus
- Salsola kali

* Controlled with dicamba tank mixture only.

Apply 16 fl. oz. of this product plus 0.5 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 the following annual broadleaf weeds when less than 6 inches tall:

- Ragweed, common
- Ragweed, giant
- Smartweed, Pennsylvania
- Velvetleaf
- Ambrosia artemisiifolia
- Ambrosia trifida
- Polygonum pensylvanicum
- Abutilon theophrasti

**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*, Bassia, fivehook
- Brome
- Fiddleneck
- Fleabane, hairy
- Fleabane
- Kochia
- Lettuce, prickly
- Momordica charantia
- Bassia hyssopifolia
- Bromus spp.
- Amsinckia spp.
- Conyza bonariensis
- Erigeron spp.
- Kochia scoparia
- Lactuca serriola
- Panicum
- Ragweed, common
- Ragweed, giant
- Smoothweed, Pennsylvania
- Sowthistle, annual
- Sunflower
- Thistle, Russian
- Velvetleaf

* Apply with hand-held equipment only.
Perennial Weeds

Apply this product as follows to control or destroy most perennial weeds:

NOTES: 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):

<table>
<thead>
<tr>
<th>Weed Species</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alfalfa</td>
<td>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 or the fall. Allow plants 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 freezes.</td>
</tr>
<tr>
<td>Alligatorweed*</td>
<td>Apply 4 quarts of this product per acre or apply a 1.5% solution with hand-held equipment to provide partial control. Apply when 60% of the plants are in bloom. Repeat applications will be required to maintain such control.</td>
</tr>
<tr>
<td>Anise (fennel)</td>
<td>Apply a 1 to 2% solution of this product as a spray-to-wet treatment. Optimum results are obtained when plants are at the bud to full-bloom stage of growth. Repeat applications may be needed in succeeding years to control plants arising from seeds.</td>
</tr>
<tr>
<td>Artichoke, Jerusalem</td>
<td>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.</td>
</tr>
<tr>
<td>Bahiagrass</td>
<td>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.</td>
</tr>
<tr>
<td>Bermatgrass</td>
<td>THIS PRODUCT IS NOT REGISTERED IN CALIFORNIA FOR USE IN WATER BERMUDA GRASS</td>
</tr>
<tr>
<td>Bermuda grass, water (Knotgrass)</td>
<td>See DIRECTIONS FOR USE AND MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS sections of this label for labeled uses and specific application instructions.</td>
</tr>
<tr>
<td>Bermuda grass</td>
<td>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 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.</td>
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<td>For partial control, apply 3 quarts per acre. Treat when Bermuda grass is 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.</td>
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</table>
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. 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 - 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 weeds are 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. 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. Do not treat when weeds are under drought stress as good soil moisture is necessary for active growth. Apply 3 or more days after application before tillage.

Fescue, tall - Apply 0.5 to 1 quart of this product per acre to actively growing fescue when most have reached the boot-to-head stage of growth. For best results, apply to actively growing plants when most have reached the 7-leaf stage of growth. Ensure thorough coverage when using hand-held equipment. 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. 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.

Fescue, tall - Apply 0.5 to 1 quart of this product per acre to actively growing fescue when most have reached the boot-to-head stage of growth. For best results, apply to actively growing plants when most have reached the 7-leaf stage of growth. Ensure thorough coverage when using hand-held equipment. Allow 7 or more days after application before tillage.

Guinea grass - Apply 3 quarts of this product per acre or use a 1% 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.

Bracken fern - Apply 3 to 4 quarts of this product per acre as a broadcast spray as a 1% to 1.5% solution with hand-held equipment. Apply to fully expanded fronds that are at least 18 inches long.

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. 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 - 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 weeds are 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. 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. Do not treat when weeds are under drought stress as good soil moisture is necessary for active growth. Apply 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, 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 at least 2 weeks and when plants are at or beyond flowering.

Bindweed, field - 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 weeds are 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.

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, 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 at least 2 weeks and when plants are at or beyond flowering.

Fescue, tall - Apply 0.5 to 1 quart of this product in 10 to 40 gallons of water per acre to actively growing plants when most have reached the boot-to-head stage of growth. Allow 7 or more days after application before tillage.

Guinea grass - Apply 3 quarts of this product per acre or use a 1% 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.

Bracken fern - Apply 3 to 4 quarts of this product per acre as a broadcast spray as a 1% to 1.5% solution with hand-held equipment. Apply to fully expanded fronds that are at least 18 inches long.
For burndown of Johnsonsgrass - 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 Johnsonsgrass 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.

Knapsack / horseweed - 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.

Knapweed / horseradish - Apply 2 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.

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. 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 mushy 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 application. Allow 3 or more days after application before tillage. This product will not provide residual control of wirestem mushy 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 3 days after application before tillage.

Nutsedge: purple, yellow - Apply 3 quarts of this product per acre as a broadcast spray, or apply as a 1% 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 other counties of the U.S. Apply 3 quarts per acre as a broadcast spray or apply as a 1% 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. Addiction before or after this stage may lead to reduced control. Due to uneven stages of growth and 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, 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 3 to 10 gallons of water per acre. Spray when the quackgrass is greater than 6 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 12 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. Allow 3 or more days after application before tillage.

Spurge, leafy - 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 in the late summer or fall. Allow 3 or more days after application before tillage.

Starthistle, yellow - Best results are obtained when applications are made during periods of active growth, including the rossette, 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 pounds 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 3 or more days after application before tillage.

Trumpetcreeper - 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.

9-way 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
- Ash
- Aspen quaking
- Bearbrush (Bearclover)
- Beech
- Birch
- Blackberry
- Blackgum
- Bracken
- Broom: French
- Scotch
- Buckwheat, California
- Cascara
- Catclaw
- Ceanothus
- Chamise
- Cherry: bitter
- black
- plum
- Coyote brush
- Creeper, Virginia
- Dewberry
- Dogwood
- Elderberry
- Elm
- Eucalyptus
- Gorse
- Hasardia
- Hawthorn
- Hazel
- Hickory
- Holly, Florida, Brazilian peppertree
- Honeysuckle
- Horsemint, American
- Kratz
- Locust, black
- Madrone
- Manzanita
- Maple: red
- sugar
- vine
- Monkey flower
- Oak: black
- northern
- post
- red
- southern
- white
- Persimmon
- Pine
- Poison ivy
- Poison oak
- Poplar, yellow (tulip tree)
- Raspberry
- Russian olive
- Russian olive
- Sage: black, white
- Sagebrush, California
- Salmonberry
- Salt cedar
- Sassafras
- Sourwood
- Sumac: poison
- smooth
- winged
- Sweet gum
- Sword fern
- Tallow tree, Chinese
- Tobacco
- Tobacco, tree
- Trumpetchreeper
- Wax myrtle, southern
- Willow
- Acer rubrum
- Acer saccharum
- Alnus incana
- Quercus velutina
- Quercus palustris
- Quercus stellata
- Quercus rubra
- Quercus falcata
- Quercus atlantica
- Diospyros spp.
- Pinus spp.
- Rhus radicans
- Rhus toxicodendron
- Liriodendron tulipifera
- Rubus spp.
- Cercis canadensis
- Rosa multiflora
- Elaeagnus angustifolia
- Salvia spp.
- Artemisia californica
- Rubus spectabilis
- Tamarix spp.
- Sassafras albidum
- Oxylegendrum arboreum
- Rhus vernix
- Rhus glabra
- Rhus copallina
- Liquidambar styraciflua
- Polystichum munitum
- Sapium sebiferum
- Lithocarpus densiflorus
- Rubus parviflorus
- Nicotiana alata
- Campsis radicans
- Myrica cerifera
- Salix spp.

*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 / hawthorn / 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, blackberries 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 1% 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. Repeat applications are made prior to leaf deterioration by leaf-feeding insects.

**Sage, black / sagebrush, California / chamise / talliowtree, 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 of 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 4 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.

### 102 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. 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 sulfonylurea 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 sulfonylurea-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
- Soybeans*
- Sorghum (milo)*
- Sugarcane*
- Soybeans*
- Sugarcane*
- Sorghum (milo)*
- Soybeans*
- Sugarcane*

### Cereal Grains
- Barley*
- Buckwheat*
- Millet (pearl, proso)*
- Oats*
- Rice**
- Rye*
- Triticale*
- Wheat (all)*
- Wild rice*
- Triticale*
- Wheat (all)*
- Wild rice*

### Citrus
- Calamondin
- Chironja
- Citron
- Grapefruit
- Kumquat
- Lemon
- Lime
- Mandarin orange
- Orange (all)
- Punica
- Tangerine
- Tangerine
- Tangerine
- Tangerine
- Tangerine

### Tree Nuts
- Almond
- Beechnut
- 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
- Carrots
- Cauliflower
- Cabbage/melon***
- Celery
- Chard, Swiss
- Chicory
- Collards
- Cranberry melon***
- Cucumber***
- Eggplant***
- Endive
- Garlic
- Green onion
- 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
- Rutabega
- Shalot
- 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
- Olallieberry
- Raspberry (black, red)
- Strawberry
- Boysenberry
- Dewberry
- Elderberry
- Goosberry
- Huckleberry
- Loganberry
- Olallieberry
- Raspberry (black, red)
- Strawberry

### Forage Crops and Legumes
- Alfalfa*
- Forage grasses*
- Forage legumes*
- Forage grasses
- Forage legumes

### Tropical Crops
- Acerola
- Atemoya
- Avocado
- Banana
- Breadfruit
- Canistel
- Carambola
- Cherimoya
- Cocoa beans
- Coffee
- Dates
- Figs
- Genip
- Guava
- Jaboticaba
- Jackfruit
- Longan
- Lychee
- Mango
- Papaya
- Passion fruit
- Persimmons
- Pineapples
- Plantains
- Pomegranate
- Sapodilla
- Sapote (black, mamey, white)
- Soursop
- Sugarapples
- Tamarind
- Tapioca

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*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 0.25 in 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 and 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 AND 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:

<table>
<thead>
<tr>
<th>Crop Type</th>
<th>Time Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cotton, soybeans</td>
<td>7 days</td>
</tr>
<tr>
<td>Apples, citrus, pear</td>
<td>1 day</td>
</tr>
<tr>
<td>Atemoya, avocado, breadfruit, canistel, carambola, cherry, dates, grapes, jaboticaba, jackfruit, longan, lychee, passion fruit, persimmons, rutabagas, sapodilla, sapote, soursop, sugarapples, tamarind</td>
<td>14 days</td>
</tr>
<tr>
<td>Stone fruit</td>
<td>17 days</td>
</tr>
<tr>
<td>Nut crops</td>
<td>3 days</td>
</tr>
<tr>
<td>Wheat</td>
<td>35 days</td>
</tr>
<tr>
<td>Sorghum (milo)</td>
<td>40 days</td>
</tr>
</tbody>
</table>

1. Do not use roller applicators.
2. Do not feed or graze treated milo fodder. Do not ensile treated vegetation.
11. 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.

12. 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, pre-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.

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. The 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 nozzle is designed to completely enclose the spray solution. If necessary, extend the front and rear flaps of the hoods to reach the ground in depressions.

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 drill 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 spatter of the herbicide solution may contact the crop and cause discoloration, stunt, 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 allow more than 3 quarts of this product per acre per year for hooded sprayer applications.

13. 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.

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

<table>
<thead>
<tr>
<th>HELOSATE PLUS ADVANCED @ 12 fl. oz. / acre</th>
<th>HELOSATE PLUS ADVANCED @ 16 fl. oz. / acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheat</td>
<td>Annual grasses at left plus:</td>
</tr>
<tr>
<td>18&quot;**</td>
<td></td>
</tr>
<tr>
<td>Barley</td>
<td>12&quot;</td>
</tr>
<tr>
<td>6&quot;</td>
<td>Chickweed</td>
</tr>
<tr>
<td>Bluegrass, annual</td>
<td>Groundsel</td>
</tr>
<tr>
<td>6&quot;</td>
<td>Marestail</td>
</tr>
<tr>
<td>Barnyardgrass</td>
<td>Rocket, London</td>
</tr>
<tr>
<td>6&quot;</td>
<td>Shepherd’s purse</td>
</tr>
<tr>
<td>Rye</td>
<td>Crabgrass</td>
</tr>
<tr>
<td>6&quot;</td>
<td>Johnsongrass, seeding</td>
</tr>
<tr>
<td></td>
<td>Lamb’s quarters</td>
</tr>
<tr>
<td></td>
<td>Dog, wild</td>
</tr>
<tr>
<td></td>
<td>Pigweed, ragged</td>
</tr>
<tr>
<td></td>
<td>Mustard</td>
</tr>
</tbody>
</table>

*Maximum height or length in inches.

**HELOSATE PLUS ADVANCED @ 12 fl. oz. / acre**

<table>
<thead>
<tr>
<th>HELOSATE PLUS ADVANCED @ 12 fl. oz. / acre</th>
<th>HELOSATE PLUS ADVANCED @ 16 fl. oz. / acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual grasses above plus:</td>
<td>Annual weeds above plus:</td>
</tr>
<tr>
<td>Cheeseweed, common</td>
<td>Cheeseweed, common</td>
</tr>
<tr>
<td>3&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>Chickweed</td>
<td>Groundsel</td>
</tr>
<tr>
<td>3&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>Groundsel</td>
<td>Chickweed</td>
</tr>
<tr>
<td>3&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>Rocket, London</td>
<td>Rocket, London</td>
</tr>
<tr>
<td>6&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>Shepherd’s purse</td>
<td>Shepherd’s purse</td>
</tr>
<tr>
<td>6&quot;</td>
<td>12&quot;</td>
</tr>
</tbody>
</table>

**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.

**HELOSATE PLUS ADVANCED @ 16 fl. oz. / acre**

**Goal** 2 to 4 fl. oz. / acre

<table>
<thead>
<tr>
<th>Goal** 2 to 4 fl. oz. / acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual grasses above plus:</td>
</tr>
<tr>
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</tr>
<tr>
<td>3&quot;</td>
</tr>
<tr>
<td>Chickweed</td>
</tr>
<tr>
<td>3&quot;</td>
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<td>Shepherd’s purse</td>
</tr>
<tr>
<td>6&quot;</td>
</tr>
</tbody>
</table>

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

**Goal** 2 to 4 fl. oz. / acre

<table>
<thead>
<tr>
<th>Goal** 2 to 4 fl. oz. / acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual weeds above plus:</td>
</tr>
<tr>
<td>Cheeseweed, common</td>
</tr>
<tr>
<td>6&quot;</td>
</tr>
<tr>
<td>Chickweed</td>
</tr>
<tr>
<td>6&quot;</td>
</tr>
<tr>
<td>Groundsel</td>
</tr>
<tr>
<td>6&quot;</td>
</tr>
<tr>
<td>Rocket, London</td>
</tr>
<tr>
<td>6&quot;</td>
</tr>
<tr>
<td>Shepherd’s purse</td>
</tr>
<tr>
<td>6&quot;</td>
</tr>
</tbody>
</table>

**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.

**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 0.75 to 2.0 pounds active ingredient per acre plus
- Atrazine at 0.75 to 2.0 pounds active ingredient per acre plus
- Lasso at 2.5 to 3.0 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:

<table>
<thead>
<tr>
<th>Weed Type</th>
<th>Scientific Name</th>
<th>Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brome, downy</td>
<td>Bromus tectorum</td>
<td>Lettuce, prickly</td>
</tr>
<tr>
<td>Cheat</td>
<td>Bromus secalinus</td>
<td>Pigweed, redroot</td>
</tr>
<tr>
<td>Foxtail, green</td>
<td>Setaria viridis</td>
<td>Thistle, Russian</td>
</tr>
<tr>
<td>Foxtail, yellow</td>
<td>Setaria lutescens</td>
<td>Wheat, volunteer</td>
</tr>
<tr>
<td>Kochia*</td>
<td>Kochia scoparia</td>
<td></td>
</tr>
</tbody>
</table>

*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.

13° Aid to Tillage

This product, when used in conjunction with preplant tillage practices, will provide control of downy brome, cheat, volunteer wheat, field mustard, and foxtail. Apply 8 fl. oz. of this product plus 0.5 to 1% nonionic surfactant as 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.

14° 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.

15° 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, bromegrass, 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.

16° 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 0.6 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 volunteer 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 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.

17° 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 applicatons 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. Do not combine 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 15 gallons of water per acre. See the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for procedures for 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.

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 restrictions and restrictions on the application of this product.

**TANK MIXTURES:** Tank mixtures with other herbicides, insecticides, fungicides, micronutrients or fertilizer 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. Halos 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 ammonium sulfate.

**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 tank at planting by using a burn-down application or tillage to control existing weeds before crop emergence. In no-till and stale seedbed systems, a preplant burn-down treatment with this product is directed to control existing weeds prior to crop emergence. Some weeds, such as black nightshade, broadleaf signalgrass, sicklepod, foxtail, panicum, sandbur, annual morningglory, woody cupgrass, shattercane, wild proso millet, burcucumber, and giant ragweed with multiple germination times, or suppressed (shaded) weeds, may require a second application of this product for complete control. The second application should be made after some growth 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 equivalent) 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.

**17. ROUNDUP READY ALFALFA**

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

<table>
<thead>
<tr>
<th>Maximum Application Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined total per year for all applications, including Preplant during year of establishment</td>
</tr>
<tr>
<td>Combined total per year for In-crop applications for newly established and established stands</td>
</tr>
<tr>
<td>Preplant, Preplanting and Preemergence (In-crop) single applications</td>
</tr>
</tbody>
</table>

**TYPES OF APPLICATIONS:** Preplant, Preplanting, Preemergence, Postemergence (In-crop)

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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 root 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-trifoliate growth stage. Refer to the following table for application rates during stand establishment (seeding year):

### NEW STAND ESTABLISHMENT (Seeding Year) Application Rates

<table>
<thead>
<tr>
<th>Prior to First Cutting</th>
<th>Established Stands (Non-seeding Year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>From emergence up to 4 trifoliate leaves</td>
<td>Up to 66 fluid ounces per acre</td>
</tr>
<tr>
<td>From 5 trifoliate leaves up to 5 days before cutting</td>
<td>Up to 66 fluid ounces per acre</td>
</tr>
<tr>
<td>In-crop application, per cutting, up to 5 days before cutting</td>
<td>Up to 66 fluid ounces per acre</td>
</tr>
</tbody>
</table>

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.

### 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.

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, 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.

### 17 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):

<table>
<thead>
<tr>
<th>Maximum Application Rates</th>
<th>66 fluid ounces per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total of all Preplant, At-Planting, Preemergence applications</td>
<td>66 fluid ounces per acre</td>
</tr>
<tr>
<td>Total of all in-crop applications from emergence to canopy closure or prior to bolting in the spring</td>
<td>66 fluid ounces per acre</td>
</tr>
</tbody>
</table>

**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.

### 17 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 the maximum application rates of this product with corn hybrids with Roundup Ready 2 Technology:

<table>
<thead>
<tr>
<th>Maximum Application Rates</th>
<th>8 quarts per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined total per year for all applications</td>
<td>8 quarts per acre</td>
</tr>
<tr>
<td>Total of all Preplant, At-Planting, Preemergence applications</td>
<td>5 quarts per acre</td>
</tr>
<tr>
<td>Total of all in-crop applications from emergence through 48-inch corn</td>
<td>96 fluid ounces per acre</td>
</tr>
<tr>
<td>Maximum Preharvest application rate after maximum kernel fill is complete and the crop is physiologically mature (black layer formation) until 7 days before harvest*</td>
<td>33 fluid ounces per acre</td>
</tr>
</tbody>
</table>

*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 Fulltime, Keystone, Keystone LA, TopNotch, acetochlor, Bicep MAGNUM, Bicep Lite II MAGNUM, Dual II MAGNUM, metolachlor, 2,4-D, Aim, Aim EC, Atrazine, Axion, 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 9 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 the 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 inches corn must not exceed 48 fluid ounces per acre. Sequential in-crop application of this product form 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 as having acceptable. 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 30 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 is registered for application postemergence (in-crop) to corn. Read and follow label directions for 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, Basis Gold, Clarity, Define, Distinct, Equip, Hornet, Marksman, Option, Resolve, Resource

<table>
<thead>
<tr>
<th>Tank Mixture Product</th>
<th>Maximum Height of Corn At Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree</td>
<td>11 inches</td>
</tr>
<tr>
<td>Degree Xtra</td>
<td>11 inches</td>
</tr>
<tr>
<td>Harness</td>
<td>12 inches</td>
</tr>
<tr>
<td>Harness Xtra</td>
<td>12 inches</td>
</tr>
<tr>
<td>Harness Xtra 5.6L</td>
<td>12 inches</td>
</tr>
</tbody>
</table>

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 35 fluid ounces per acre. Make applications at 35% to 45% grain moisture or less. Ensure that maximum kernel fill is complete and the corn is physically mature (black layer formed).

RESTRICTIONS: Allow a minimum of 7 days between application and harvest of seed corn stover or seed. A preharvest application may 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 weeds control after crop harvest. Higher rates may be required for control if large weeds that are 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.
17° 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.

<table>
<thead>
<tr>
<th>Application Type</th>
<th>Maximum Application Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined total per year for all applications</td>
<td>8 quarts per acre</td>
</tr>
<tr>
<td>Total of all Preplant, At-Planting, Preemergence applications</td>
<td>5 quarts per acre</td>
</tr>
<tr>
<td>Total of all in-crop applications from ground cracking to layby</td>
<td>4 quarts per acre</td>
</tr>
<tr>
<td>Maximum Preharvest application rate</td>
<td>2 quarts per acre</td>
</tr>
<tr>
<td>Combined total of all in-crop applications from emergence through harvest</td>
<td>6 quarts per acre</td>
</tr>
</tbody>
</table>

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 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. Ensure that the specific product being used in the tank mixture is registered for application prior to the emergence of cotton. Read and follow label directions of all products in the tank mixture.

PRECAUTIONS: 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 first 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 bolting, 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 post-emergence (in-crop) to cotton. Read and follow label directions of all products in the tank mixture.

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.

Salvage Treatment: This treatment may be used after the 4-leaf (node) 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 bolting 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.

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. Do at this stage, use post-directed equipment that directs the spray to the 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 are 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 may 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 post-emergence (in-crop) to cotton. Read and follow label directions of all products in the tank mixture.

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. Do at this stage, use post-directed equipment that directs the spray to the 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 are 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 may 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 post-emergence (in-crop) to cotton. Read and follow label directions of all products in the tank mixture.

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. Do at this stage, use post-directed equipment that directs the spray to the 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 are 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 may 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 post-emergence (in-crop) to cotton. Read and follow label directions of all products in the tank mixture.

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. Do at this stage, use post-directed equipment that directs the spray to the 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 are 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 may 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 post-emergence (in-crop) to cotton. Read and follow label directions of all products in the tank mixture.

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. Do at this stage, use post-directed equipment that directs the spray to the 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 are 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 may 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 post-emergence (in-crop) to cotton. Read and follow label directions of all products in the tank mixture.

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.
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 PRE-HARVEST 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.

17. 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, Preemergence, At-Planting, Post-emergence (in-crop applications). Preharvest

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

| 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 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 Glyphosate and applied prior to planting only. This product may be tank-mixed with the following products and follow label directions for all products in the tank mixture:

- Caparol, Dires, Dual MAGNUM, flumetsulam, 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, preemergence 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 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 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 Flex 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 Plus Advanced 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 / acre is recommended for 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, Fusilade, Post Plus, Select MAX, Staple, metolachlor

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 a broadcast 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 Plus, Sandimethalin, Stele, 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 crop injury, 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 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 6.0 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.
17 ROUNDUP READY SOYBEANS

PRECAUTION: 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.

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.

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.

<table>
<thead>
<tr>
<th>Application Type</th>
<th>Maximum Application Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined total per year for all applications</td>
<td>8 quarts per acre</td>
</tr>
<tr>
<td>Total of all Preplant, At-Planting, Preemergence applications</td>
<td>5 quarts per acre</td>
</tr>
<tr>
<td>Total of all in-crop applications from Cracking through flowering (R2 stage soybeans)</td>
<td>96 fluid ounces per acre</td>
</tr>
<tr>
<td>Maximum Preharvest application rate</td>
<td>33 fluid ounces per acre</td>
</tr>
</tbody>
</table>

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 stage 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, marshmallow, smartweed, Texas wild plum, velvetleaf, wire grass, smartweed and wirestem mulhly. For best results, apply 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) soybeans. Read and follow label directions of all products in the tank mixture.

Arrow, Assure II, Axiom, Authority, Blanket, Boundary, Canopy, Classic, Cobra, Command, Command Xtra, Dowem Dual, MAGNUM, Dual II MAGNUM, FirstRate, Flexstar, Frontier, Fusion, Gangster, INTRO, Lexana, Linex, Lorox, metolachlor, MicroTech, Outlook, Pendimax, pendimethalin, Pursuit, Pursuit Plus, Python, Reflex, Resource, Scepter, Select, Select MAX, Sencor, Spartan, Squardron, 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: 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.

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 its 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, 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.
17° 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.

<table>
<thead>
<tr>
<th>Maximum Application Rates</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined total per year for all applications</td>
<td>8 quarts per acre</td>
</tr>
<tr>
<td>Total of all Preplant, Preemergence applications</td>
<td>5 quarts per acre</td>
</tr>
<tr>
<td>Total of all in-crop applications from emergence to 8-leaf stage</td>
<td>84 fluid ounces per acre</td>
</tr>
<tr>
<td>Total of all applications made between 8-leaf stage and canopy closure</td>
<td>88 fluid ounces per acre</td>
</tr>
</tbody>
</table>

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 Roundup sugar beets early to eliminate competing weeds. Up to 8 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 form crop emergence through harvest must not exceed 4 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.

18° CONSERVATION TILLAGE, MINIMUM TILLAGE AND NO-TILL SYSTEMS

18. CORN AND SOYBEANS

Tank Mixture

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 precautionary 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, and 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.

18° CORN

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

<table>
<thead>
<tr>
<th>Lasso / alachlor</th>
<th>Bicep Magnum®</th>
<th>Simazine</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lariat®</td>
<td>Partner®</td>
<td>Prowl®</td>
</tr>
<tr>
<td>Bullet®</td>
<td>Atrazine</td>
<td>Micro-Tech®</td>
</tr>
<tr>
<td>Dual Magnum®</td>
<td>Cyanazine</td>
<td></td>
</tr>
</tbody>
</table>

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.

18° SOYBEANS

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

| Canopy® | Linuron | Turbo™ |
| Command® | Pursuit® | Scepter® |
| Dual Magnum® | Partner | Sencor® |
| Gemini™ | Lorox® Plus | Squadron® |
| Lasso / alachlor | Preview™ | Pursuit Plus |
| Lexone™ | Prowl® | Micro-Tech® |

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.
18.3 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 seeding 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 seeding 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 seeding 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 6 QUARTS PER ACRE OF THIS PRODUCT FOR PREHARVEST APPLICATIONS TO WHEAT.

18.4 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.

18.5 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 0 to 10 gallons of water per acre.

This product provides weed control and cotton regrowth inhibition when applied to the soil. For ground applications with broadcast equipment, 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 PER ACRE FOR PREHARVEST APPLICATIONS TO COTTON.

In addition to the tank mixtures above, under these conditions provides top kill and reduces competition from many emerged annual and perennial weeds.

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.

18.6 GRAIN SORGHUM (Milo)

Apply after all pods have set and lost all green color. Allow a minimum of 7 days between application and harvest of grain sorghum (milo), and at least 7 days prior to harvest.

Apply up to 2 quarts of this product per acre.

18.7 WHEAT

Apply after 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.

19.0 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 MATURATED 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**

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.

<table>
<thead>
<tr>
<th>Weed Species</th>
<th>Maximum Height / Diameter (inches)</th>
<th>Rate per Acre</th>
<th>HELOSATE PLUS ADVANCED (fl. oz.)</th>
<th>Goal (fl. oz.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley</td>
<td>6</td>
<td>12</td>
<td>16</td>
<td>or 4 to 16**</td>
</tr>
<tr>
<td>Bluegrass, annual</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Barnyardgrass</td>
<td>6</td>
<td></td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Chickweed, common</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Red maids</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Crabgrass</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Fleabane, hairy</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Groundsel, common</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Junglerice</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Lamb's quarters, common</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Pigweed, redroot</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Rocket, London</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Ryegrass, common or Italian</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Shepherd's purse</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Sorghistle, annual</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Cheeseweed, common</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Cheeseweed, common</td>
<td>3</td>
<td></td>
<td>12 to 32</td>
<td></td>
</tr>
<tr>
<td>Filariae*</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Horseweed / marestail</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Nettle, stinging</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Purslane, common</td>
<td>6</td>
<td></td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

* 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 Karpro® 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 Sall NASA 800F**

**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:**

**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:

<table>
<thead>
<tr>
<th>Barley, wild</th>
<th>Hordeum leporinum</th>
<th>Horseweed, annual</th>
<th>Conyza canadensis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluegrass, annual</td>
<td>Poa annua</td>
<td>Nettle, stinging</td>
<td>Urtica dioica</td>
</tr>
<tr>
<td>Cheeseweed, common</td>
<td>Malva spp.</td>
<td>Pineappleweed</td>
<td>Matricaria matricariodes</td>
</tr>
<tr>
<td>Chickweed, common</td>
<td>Stellaria media</td>
<td>Rocket, London</td>
<td>Sisymbrium irio</td>
</tr>
<tr>
<td>Filaria*</td>
<td>Erodium spuria</td>
<td>Shepherd's purse</td>
<td>Capsella bursa-pastoris</td>
</tr>
<tr>
<td>Fleabane, hairy</td>
<td>Convolvulus arvensis</td>
<td>Sorghistle, annual</td>
<td>Sonchus oleraceus</td>
</tr>
<tr>
<td>Groundsel, common</td>
<td>Senecio vulgarissim</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*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.

### 19 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 for 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 16 fl. oz. of this product plus nonionic surfactant should be used in shaded conditions or where a lesser degree of suppression is 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 suppression 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 10 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 gajlars 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 Kromo 111 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 KrovaVil 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)

<table>
<thead>
<tr>
<th>Weed Species</th>
<th>HELOSATE PLUS ADVANCED Rate per Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 qt.</td>
</tr>
<tr>
<td>Bermuda grass</td>
<td>B</td>
</tr>
<tr>
<td>Guinea grass</td>
<td>B</td>
</tr>
<tr>
<td>Texas and Florida ridge</td>
<td>B</td>
</tr>
<tr>
<td>Florida flatwoods</td>
<td>B</td>
</tr>
<tr>
<td>Paragras</td>
<td>B</td>
</tr>
<tr>
<td>Torpedograss</td>
<td>S</td>
</tr>
</tbody>
</table>

### Citrus****:
- calamondin, chironia, citron, grapefruit, kumquat, lemon-lime, mandarin, orange, orange, pummelo, tangelo, tangerine, tangors.

### Nuts**:
- almond, beechnut, Brazil nut, butternut, cashew, chestnut, filbert, hazelnut, hickory nut, macadamia, pecan, pistachio, walnut.

### 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 citrus and olives, apply as a directed spray only.

For 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.

**NOTE:**
- Allow a minimum of 14 days between last application and harvest.
- Allow a minimum of 28 days between last application and harvest.
- Allow a minimum of 14 days between last application and harvest.
- Allow a minimum of 28 days between last application and harvest.
- Allow a minimum of 14 days between last application and harvest.
21^3 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.

20^ 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 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.

21^ 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 wide application 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.

21^ 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 240 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  
Cassualia latifolium  
Johnsongrass**  
Sorghum halepense

Bermudagrass*  
Cynodon dactylon  
Poorjo**  
Diodia teres

Broomsedge  
Andropogon virginicus  
Quackgrass  
Elytrigia repens

Dock, curly  
Rumex crispus  
Trumpet creeper*  
Campsis radicans

Dogfennel  
Eupatorium capillifolium  
Vaseygrass  
Paspalum urvillei

Fescue, fescue  
Festuca arundinacea  
Vervain, blue  
Verbena hastata

* Suppression at higher rates only, control at the lower rates.

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

HELOSATE PLUS ADVANCED plus Garlon 4

For broadcast 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 ditches, wasteland and similar noncrop or industrial sites.

Hand-held and high-volume applications:

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 ½ 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.

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

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 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. Read 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 trumpetcreeper 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 plywood 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.

21: RAILROAD RIGHTS-OF-WAY
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 trumpetcreeper 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 for actively growing trumpetcreeper. Application should be made any time from early postemergence to before a killing frost. Use the higher rates of these products where 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 trumpeterweeds. 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 anytime 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.

21 Tank Mixtures for Noncrop Sites
When applied as a tank mixture, this product provides control of the emerged annual and 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, precautionary 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, or 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 brownweed saltcedar and yaupon.

21 Hand-held and high-volume applications
Use 4 to 8 quarts of HELOSATE PLUS ADVANCED plus 1 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, apply 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.

21 Broadcast applications with ground equipment
Use 2 to 5 quarts of HELOSATE PLUS ADVANCED plus ½ 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.

21 Aerial applications
Use 2 to 5 quarts of HELOSATE PLUS ADVANCED plus ½ 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 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, precautionary statements, and all other information on the labels of all 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 solely and directly caused by the inclusion of the HELM product in such combination use.
21\textsuperscript{a} 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.

<table>
<thead>
<tr>
<th>Tank Mix Product</th>
<th>Rate per Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenal\textsuperscript{*}</td>
<td>0.5 to 4 pints</td>
</tr>
<tr>
<td>Banvel\textsuperscript{b}</td>
<td>1 to 4 pints</td>
</tr>
<tr>
<td>2,4-D</td>
<td>0.5 to 1 pound</td>
</tr>
<tr>
<td>Garlon 3A</td>
<td>1 to 6 pints</td>
</tr>
<tr>
<td>Garlon 4</td>
<td>1 to 6 pints</td>
</tr>
<tr>
<td>Diuron</td>
<td>4 to 8 pounds</td>
</tr>
<tr>
<td>Diuron + 2,4-D</td>
<td>4 to 8 pounds + 0.5 to 1 pound</td>
</tr>
<tr>
<td>Diuron + Garlon 3A</td>
<td>4 to 8 pounds + 1 to 2 pints</td>
</tr>
<tr>
<td>Diuron + Garlon 4</td>
<td>4 to 8 pounds + 1 to 2 pints</td>
</tr>
<tr>
<td>Hyvar\textsuperscript{X}</td>
<td>4 to 8 pounds</td>
</tr>
<tr>
<td>Hyvar X + 2,4-D</td>
<td>4 to 8 pounds + 0.5 to 1 pound</td>
</tr>
<tr>
<td>Hyvar X + Garlon 3A</td>
<td>4 to 8 pounds + 1 to 2 pints</td>
</tr>
<tr>
<td>Hyvar X + Garlon 4</td>
<td>4 to 8 pounds + 1 to 2 pints</td>
</tr>
<tr>
<td>Krovar I DF</td>
<td>4 to 8 pounds</td>
</tr>
<tr>
<td>Krovar I DF + 2,4-D</td>
<td>4 to 8 pounds + 0.5 to 1 pound</td>
</tr>
<tr>
<td>Krovar I DF + Garlon 3A</td>
<td>4 to 8 pounds + 1 to 2 pints</td>
</tr>
<tr>
<td>Krovar I DF + Garlon 4</td>
<td>4 to 8 pounds + 1 to 2 pints</td>
</tr>
<tr>
<td>Oust</td>
<td>2 to 6 ounces</td>
</tr>
<tr>
<td>Oust + 2,4-D</td>
<td>2 to 6 ounces + 0.5 to 1 pound</td>
</tr>
<tr>
<td>Oust + Garlon 3A</td>
<td>2 to 6 ounces + 1 to 2 pints</td>
</tr>
<tr>
<td>Oust + Garlon 4</td>
<td>2 to 6 ounces + 1 to 2 pints</td>
</tr>
<tr>
<td>Spike\textsuperscript{W}</td>
<td>2 to 5 pounds</td>
</tr>
<tr>
<td>Spike 80W</td>
<td>2 to 5 pounds + 0.5 to 1 pound</td>
</tr>
<tr>
<td>Spike 80W + 2,4-D</td>
<td>2 to 5 pounds + 1 to 2 pints</td>
</tr>
<tr>
<td>Spike 80W + Garlon 3A</td>
<td>2 to 5 pounds + 1 to 2 pints</td>
</tr>
<tr>
<td>Spike 80W + Garlon 4</td>
<td>2 to 5 pounds + 1 to 2 pints</td>
</tr>
</tbody>
</table>

\textsuperscript{*}Arsenal is not approved for use in the state of California.

Refer to the individual product labels for specific noncrop sites, tank mix 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.
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 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.

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 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.

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

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.

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.

FARMSTEAD WEED CONTROL

22 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 to 10% of the product 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. 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. Add nonionic surfactant at a rate of 0.5% of the spray solution.

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.

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.

Habitat Restoration and Maintenance

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.

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. It is recommended to prepare a seedbed, wait 7 days after applying this product before tilling.

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 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 post-directed 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.

<table>
<thead>
<tr>
<th>Species</th>
<th>Common Name</th>
<th>Common Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arborvitae</td>
<td>Thuja spp.</td>
<td>Lilac</td>
</tr>
<tr>
<td>Azalea</td>
<td>Rhododendron spp.</td>
<td>Magnolia</td>
</tr>
<tr>
<td>Boxwood</td>
<td>Buxus spp.</td>
<td>Maple</td>
</tr>
<tr>
<td>Crabapple</td>
<td>Malus spp.</td>
<td>Oak</td>
</tr>
<tr>
<td>Douglas fir</td>
<td>Pseudotsuga spp.</td>
<td>Privet</td>
</tr>
<tr>
<td>Euonymus</td>
<td>Euonymus spp.</td>
<td>Pine</td>
</tr>
<tr>
<td>Fir</td>
<td>Abies spp.</td>
<td>Spruce</td>
</tr>
<tr>
<td>Jojoba</td>
<td>Simmondsia chinensis</td>
<td>Yew</td>
</tr>
<tr>
<td>Hollies</td>
<td>Ilex spp.</td>
<td>Taxus spp.</td>
</tr>
</tbody>
</table>

**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 section of this label.

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

**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.

**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 early, deciduous 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 seeding 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:**

<table>
<thead>
<tr>
<th>Conifer Species</th>
<th>Pseudotsuga spp.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fir</td>
<td>Abies spp.</td>
</tr>
<tr>
<td>Hemlock</td>
<td>Tsuga spp.</td>
</tr>
<tr>
<td>Pine*</td>
<td>Pinus spp.</td>
</tr>
<tr>
<td>Spruce</td>
<td>Picea spp.</td>
</tr>
</tbody>
</table>

*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:

<table>
<thead>
<tr>
<th>Species</th>
<th>Scientific Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loblolly pine</td>
<td>Pinus taeda</td>
</tr>
<tr>
<td>Eastern white pine</td>
<td>Pinus strobus</td>
</tr>
<tr>
<td>Slash pine</td>
<td>Pinus elliottii</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Species</th>
<th>Scientific Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ash</td>
<td>Fraxinus spp.</td>
</tr>
<tr>
<td>Cherry: black pin</td>
<td>Prunus serotina</td>
</tr>
<tr>
<td>Elm</td>
<td>Ulmus spp.</td>
</tr>
<tr>
<td>Hawthorn</td>
<td>Crataegus spp.</td>
</tr>
<tr>
<td>Locust, black</td>
<td>Robinia pseudoacacia</td>
</tr>
<tr>
<td>Maple, red</td>
<td>Acer rubra</td>
</tr>
<tr>
<td>Oak: black</td>
<td>Quercus velutina</td>
</tr>
<tr>
<td>Oak: post</td>
<td>Quercus stellata</td>
</tr>
<tr>
<td>Oak: white</td>
<td>Quercus alba</td>
</tr>
<tr>
<td>Sassafras</td>
<td>Sassafras albidum</td>
</tr>
<tr>
<td>Sourwood</td>
<td>Sassafras albidum</td>
</tr>
<tr>
<td>Sumac: poison smooth</td>
<td>Rhus vernix</td>
</tr>
<tr>
<td>Sumac: poison winged</td>
<td>Rhus glabra</td>
</tr>
<tr>
<td>Tannergrow</td>
<td>Liquidambar styaciflua</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Species</th>
<th>Scientific Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bahiagrass</td>
<td>Paspalum notatum</td>
</tr>
<tr>
<td>Broomsedge</td>
<td>Andropogon virginicus</td>
</tr>
<tr>
<td>Dock, curly</td>
<td>Rumex crispus</td>
</tr>
<tr>
<td>Dogfennel</td>
<td>Eupatorium capillifolium</td>
</tr>
<tr>
<td>Fescue, tall</td>
<td>Festuca arundinacea</td>
</tr>
<tr>
<td>Johnsongrass*</td>
<td>Sorghum halopense</td>
</tr>
<tr>
<td>Poorjoe*</td>
<td>Diodia teres</td>
</tr>
<tr>
<td>Trumpetcreeper**</td>
<td>Campsis radicans</td>
</tr>
<tr>
<td>Vaseygrass</td>
<td>Paspalum urvillei</td>
</tr>
<tr>
<td>Vervain, blue</td>
<td>Verbenae hastata</td>
</tr>
</tbody>
</table>

*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.

### 27° 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.

<table>
<thead>
<tr>
<th>Partial List - Species Controlled or Suppressed - Cut Stump Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alder</td>
</tr>
<tr>
<td>Eucalyptus</td>
</tr>
<tr>
<td>Madrone</td>
</tr>
<tr>
<td>Oak</td>
</tr>
<tr>
<td>Reed, giant</td>
</tr>
</tbody>
</table>

### 28° 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 cuts 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 full leaf expansion.

<table>
<thead>
<tr>
<th>Species Controlled or Suppressed - Injection and Frill Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>This treatment WILL CONTROL the following woody species:</td>
</tr>
<tr>
<td>Oak</td>
</tr>
<tr>
<td>Poplar</td>
</tr>
<tr>
<td>Dogwood</td>
</tr>
</tbody>
</table>

| This treatment WILL SUPPRESS the following woody species: |
| Black gum | Nyssa sylvatica |
| Dogwood | Cornus spp. |

### 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 50% solution. For wiper systems that can handle thicker solutions, such as force fed systems, a 33% to 100% HELSATE 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.

### 29° 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 planting 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**

When applied as directed for NONCROP USES under the conditions described, this product will provide control or suppression of many 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/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.

**29° 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) and have must have germinated. For best results on tall fescue, treat when fescue is in or beyond the 4- to 6-leaf stage.

### Weeds Controlled or Suppressed with HELOSATE PLUS ADVANCED Alone*

<table>
<thead>
<tr>
<th>Weed species</th>
<th>8</th>
<th>12</th>
<th>16</th>
<th>24</th>
<th>32</th>
<th>64</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley, little</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>c</td>
<td>c</td>
</tr>
<tr>
<td>Bedstraw, catchweed</td>
<td>s</td>
<td>c</td>
<td>c</td>
<td>c</td>
<td>c</td>
<td>c</td>
</tr>
<tr>
<td>Bluegrass, annual</td>
<td>s</td>
<td>c</td>
<td>c</td>
<td>c</td>
<td>c</td>
<td>c</td>
</tr>
<tr>
<td>Chervil</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>c</td>
<td>c</td>
</tr>
<tr>
<td>Chickweed, common</td>
<td>s</td>
<td>c</td>
<td>c</td>
<td>c</td>
<td>c</td>
<td>c</td>
</tr>
<tr>
<td>Clover, crimson</td>
<td></td>
<td>s</td>
<td>s</td>
<td>c</td>
<td>c</td>
<td>c</td>
</tr>
<tr>
<td>Clover, large hop</td>
<td></td>
<td>s</td>
<td>s</td>
<td>c</td>
<td>c</td>
<td>c</td>
</tr>
<tr>
<td>Fescue, tall</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Geranium, Carolina</td>
<td></td>
<td></td>
<td></td>
<td>s</td>
<td>s</td>
<td>c</td>
</tr>
<tr>
<td>Horsetail</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rye grass, common or Italian</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speedwell, corn</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vetch, common</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*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

<table>
<thead>
<tr>
<th>Weed species</th>
<th>HELOSATE PLUS ADVANCED (fl. oz./a) + Oust (oz./a)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>1/4</td>
</tr>
<tr>
<td>Barley, little</td>
<td>c</td>
</tr>
<tr>
<td>Bedstraw, catchweed</td>
<td>c</td>
</tr>
<tr>
<td>Bluegrass, annual</td>
<td>s</td>
</tr>
<tr>
<td>Chervil</td>
<td>c</td>
</tr>
<tr>
<td>Chickweed, common</td>
<td>c</td>
</tr>
<tr>
<td>Clover, crimson</td>
<td>s</td>
</tr>
<tr>
<td>Clover, large hop</td>
<td>s</td>
</tr>
<tr>
<td>Fescue, tall</td>
<td>s</td>
</tr>
<tr>
<td>Geranium, Carolina</td>
<td>s</td>
</tr>
<tr>
<td>Henbit</td>
<td>c</td>
</tr>
<tr>
<td>Ryegrass, common or Italian</td>
<td>c</td>
</tr>
<tr>
<td>Speedwell, corn</td>
<td>c</td>
</tr>
<tr>
<td>Vetch, common</td>
<td>c</td>
</tr>
</tbody>
</table>

* 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.

*These rates or mixtures of rates apply only to sites where an established competitive turf is present.

### For Bermuda Grass Release,*

Use the Higher Rate for Partial Control of the Following Perennial Species

<table>
<thead>
<tr>
<th>Bahiagrass</th>
<th>Andropogon saccharoides</th>
<th>Johnsongrass*</th>
<th>Sorghum halepense</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluestem, silver</td>
<td>Trumpet creeper**</td>
<td></td>
<td>Campsis radicans</td>
</tr>
<tr>
<td>Fescue, tall</td>
<td>Festuca arundinacea</td>
<td></td>
<td>Paspalum urvillei</td>
</tr>
</tbody>
</table>

**Control at higher rates.**

### For Bermuda Grass Release,*

Use the Higher Rate for Partial Control of the Following Perennial Species

*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 length of runner 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

<table>
<thead>
<tr>
<th>Bahiagrass</th>
<th>Paspalum notatum</th>
<th>Johnsongrass*</th>
<th>Sorghum halepense</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluestem, silver</td>
<td>Andropogon saccharoides</td>
<td>Poorjoe**</td>
<td>Diodia teres</td>
</tr>
<tr>
<td>Broomsedge</td>
<td>Andropogon virginicus</td>
<td>Trumpet creeper*</td>
<td>Campsis radicans</td>
</tr>
<tr>
<td>Dock, curly</td>
<td>Rumex crispus</td>
<td>Vaseygrass</td>
<td>Paspalum urvillei</td>
</tr>
<tr>
<td>Dogfennel</td>
<td>Eupatorium capilliforum</td>
<td>Vervain, blue</td>
<td>Verbascum thomasii</td>
</tr>
<tr>
<td>Fescue, tall</td>
<td>Festuca arundinacea</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* 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.

29 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 most 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

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 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 0.1 ounce of Escort per acre.

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.
29 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 the product plus Oust for suppression of bahiagrass, make only 1 application per year.

30 CONDITIONS OF SALE AND WARRANTY

HELM AGRO US, INC. AND SELLER OFFER THIS PRODUCT AND THE BUYER AND USER ACCEPTS THIS PRODUCT UNDER THE FOLLOWING AGREED CONDITIONS OF SALE AND WARRANTY.

The directions for use of this product are believed to be reliable and must be followed carefully. However, it is impossible to take into account all variables and to eliminate all risks associated with its use. Injury or damage may result because of conditions which are beyond the control of HELM AGRO US, INC. or the Seller. HELM AGRO US, INC. warrants only that this product conforms to the chemical description on the label and is believed to be reasonably fit for the purposes referred to in the Directions for Use when used as directed under normal conditions. To the extent consistent with applicable law, HELM AGRO US, INC. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. To the extent consistent with applicable law, in no case shall HELM AGRO US, INC. or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. Any variation or exception from this warranty must be in writing and signed by an authorized HELM AGRO US, INC. representative.

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Command is a trademark of FMC Corp.
Def, Senor are trademarks of Bayer AG.
Goal, Garlon, Spike, and Surflan are trademarks of Dow AgroSciences.
Thru-Value is a trademark of Waldrum Specialties, Inc.
Microfoil is a trademark of Union Carbide Ag Products.
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Permit is a trademark of Dowen.
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Banvel, Prowl, Pursuit Plus, Spectran and Squadron are trademarks of BASF Corp.
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