



U.S. ENVIRONMENTAL PROTECTION AGENCY  
 Office of Pesticide Programs  
 Registration Division (7505P)  
 1200 Pennsylvania Ave., N.W.  
 Washington, D.C. 20460

EPA Reg. Number:

93236-5

Date of Issuance:

5/25/18

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
 (under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Ranger PRO Herbicide

Name and Address of Registrant (include ZIP Code):

Stephen A. Adams  
 Agent for Seamless Control LLC  
 c/o Monsanto Company  
 700 Chesterfield Parkway West  
 Chesterfield, MO 63017

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Submit one copy of the revised final printed label for the record before you release the product for shipment.

*Continued on page 2*

Signature of Approving Official:

*Emily Schmid for*

Reuben Baris, Product Manager 25  
 Herbicide Branch, Registration Division (7505P)

Date:

5/25/18

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

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 11/16/2017
- Alternate CSF A dated 11/16/2017

If you have any questions, please contact Mindy Ondish by phone at 703-605-0723, or via email at [ondish.mindy@epa.gov](mailto:ondish.mindy@epa.gov).

Enclosure

# MASTER LABEL FOR EPA REG. NO. 93236-5

Primary Brand Name:

**Ranger PRO® Herbicide**

Alternate Brand Names:

(none)

**ACCEPTED**

**5/25/2018**

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 93236-5

## Master Label Table of Contents

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\*\*See Directions-for-Use section for a more detailed Table of Contents\*\*

I. CONTAINER LABELING

1.0 EXTENDED CONTENT LABELS

[Extended content labels (ECL) have the complete directions for use attached as additional pages directly to a base label that is securely attached to the pesticide container.]

1.1 Base Label for Extended Content Labels

[The following text represents the MINIMUM information that must be on the label that is securely attached to the primary pesticide container. Additional label information from the complete directions for use sections and the extended label contents included in this Master Label may be added to this base label as space allows.]

[INSERT BRAND NAME] [Logo optional]

GLYPHOSATE	GROUP	9	HERBICIDE
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[Optional marketing claims and/or logos in this Master Label may be added to Base Label, if space allows]

ACTIVE INGREDIENT:

*Glyphosate, N-(phosphonomethyl) glycine, in the form of its isopropylamine salt.....	41.0%
OTHER INGREDIENTS [Optional statement: (including surfactant)]:.....	59.0%
	100.0%

\*Contains 480 grams of the active ingredient glyphosate, in the form of its isopropylamine salt, per liter or 4 pounds per U.S. gallon, which is equivalent to 356 grams of the acid, glyphosate, per liter or 3 pounds per U.S. gallon (30.4% by weight).

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep out of reach of children

CAUTION

Causes moderate eye irritation

Avoid contact with eyes or clothing

FIRST AID	
IF IN EYES	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>

## I. CONTAINER LABELING

- Have the product container or labeling with you when calling a poison control center or doctor, or going for treatment.
- You can also call [*Optional text, if applicable: toll-free*] **(314) 694-4000** [*Or insert alternative telephone number, as appropriate*] [*Optional text, if applicable: collect, day or night,*] for emergency medical treatment information.
- This product is identified as **[INSERT BRAND NAME], EPA Registration No. 93236-5.**

[IF THE FIRST AID TABLE WILL NOT FIT ON THE LABEL BECAUSE OF LIMITED CONTAINER SURFACE AREA, USE THE FOLLOWING TEXT VERSION OF THE PRECAUTIONARY STATEMENTS]

### Precautionary Statements: Hazards to Humans and Domestic Animals

Keep out of reach of children

## CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. **FIRST AID – IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes then continue rinsing eye. Call a poison control center or doctor for treatment advice. Have the product container or labeling with you when calling a poison control center or doctor, or going for treatment. You can also call [*Optional text, if applicable: toll-free*] **(314) 694-4000** [*Or insert alternative telephone number, as appropriate*] [*Optional text, if applicable: collect, day or night,*] for emergency medical treatment information. This product is identified as **[INSERT BRAND NAME], EPA Registration No. 93236-5.**

### Personal Protective Equipment (PPE)

**Applicators and other handlers must wear:** long-sleeved shirt and long pants, socks and shoes.

[*If room allows on container label, if not, reference to attached labeling:* Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If there are no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.]

[*Optional base label text, as applicable:* See attached labeling for additional [*Optional text, as applicable:* Precautions, First Aid [and] information on Personal Protective Equipment].]

### DIRECTIONS FOR USE

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

#### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to "AGRICULTURAL USE REQUIREMENTS" in the DIRECTIONS FOR USE section for information about this standard.

See Complete Directions for Use attached to this label for complete [*Optional text, as applicable:* Agricultural [and Non-Agricultural] Use Requirements of the Worker Protection Standard, Directions for Use [and] Limit of Warranty and Liability [*Optional label text, if applicable:* in English and Spanish].]

## I. CONTAINER LABELING

[*Alternative label statement:* See attached labeling booklet for complete [*Optional label text, as applicable:* Agricultural [and Non-Agricultural] Use Requirements of the Worker Protection Standard, Directions for Use [and] Limit of Warranty and Liability] [*Optional label text, if applicable:* in English and Spanish].]

### STORAGE AND DISPOSAL

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

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

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

**CONTAINER HANDLING AND DISPOSAL:** [*Insert appropriate Container Handling and Disposal Statement and Refilling Limitation from the following options*]

#### [CONTAINER HANDLING AND DISPOSAL STATEMENT AND REFILLING LIMITATION FOR NONREFILLABLE RIGID CONTAINERS OF LESS THAN 1-GALLON CAPACITY]

Nonrefillable container. Do not reuse or refill this container.

[*Alternative container statement:* Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in this container. Contact your state regulatory agency to determine allowable practices in your state.]

Triple rinse this container promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or mix-tank and continue to drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix-tank, or store rinsate for later use or disposal. Continue to drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Once properly rinsed, some plastic pesticide containers can be taken to a container collection site or picked up for recycling. [*Alternative container disposal statement:* Then offer the container for recycling, if available.]

[*Optional container disposal statement:* To find the nearest collection site, contact your chemical dealer [*Optional text:* or INSERT COMPANY NAME at TELEPHONE NUMBER] [*Optional text:* or call 1-800-768-6387] [*Alternative telephone numbers:* 1-800-ROUNDUP (1-800-768-6387)].]

If recycling is not available, dispose of in accordance with federal, state and local regulations and procedures, which may include puncturing the properly rinsed container and disposing in a sanitary landfill.

#### [CONTAINER HANDLING AND DISPOSAL STATEMENT AND REFILLING LIMITATION FOR NONREFILLABLE RIGID PLASTIC 2.5-GALLON CONTAINER AND OTHER NONREFILLABLE

## I. CONTAINER LABELING

### CONTAINERS OF GREATER THAN 1-GALLON, BUT EQUAL TO OR LESS THAN 5-GALLON CAPACITY

Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in this container. Contact your state regulatory agency to determine allowable practices in your state.

[*Alternative container statement:* Nonrefillable container. Do not reuse or refill this container.]

Triple rinse or pressure rinse (or equivalent) this container promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or mix-tank and continue to drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix-tank, or store rinsate for later use or disposal. Continue to drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix-tank and continue to drain for 10 seconds after the flow begins to drip. Place container so that it can drain directly into application equipment or mix-tank while rinsing, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle into the side of the container and rinse at about 40 PSI for at least 30 seconds. Continue to drain for 10 seconds after the flow begins to drip.

Once properly rinsed, some plastic pesticide containers can be taken to a container collection site or picked up for recycling. [*Alternative container disposal statement:* Then offer the container for recycling, if available.]

[*Optional container disposal statement:* To find the nearest collection site, contact your chemical dealer [*Optional text:* or INSERT COMPANY NAME at TELEPHONE NUMBER] [*Optional text:* or call 1-800-768-6387] [*Alternative telephone numbers:* 1-800-ROUNDUP (1-800-768-6387)].]

If recycling is not available, dispose of in accordance with federal, state and local regulations and procedures, which may include puncturing the properly rinsed container and disposing in a sanitary landfill.

### CONTAINER HANDLING AND DISPOSAL STATEMENT AND REFILLING LIMITATION FOR NONREFILLABLE RIGID PLASTIC 30-GALLON CONTAINER AND OTHER NONREFILLABLE CONTAINERS OF GREATER THAN 5-GALLON CAPACITY

Nonrefillable container. Do not reuse or refill this container.

[*Alternative container statement:* Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in this container. Contact your state regulatory agency to determine allowable practices in your state.]

Triple rinse or pressure rinse (or equivalent) this container promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or mix-tank. [*Optional label text:* For containers not equipped with pumping systems,] Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth for 30 seconds, ensuring at least one complete revolution. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or mix-tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

## I. CONTAINER LABELING

*[Alternative or additional triple rinsing instructions for large containers equipped with pumping systems: [Optional label text: For large containers equipped with pumping systems,] 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 procedure two more times.]*

Pressure rinse as follows: Empty the remaining contents into application equipment or mix-tank and continue to drain for 10 seconds after the flow begins to drip. Place container so that it can drain directly into application equipment or mix-tank while rinsing, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle into the side of the container and rinse at about 40 PSI for at least 30 seconds. Continue to drain for 10 seconds after the flow begins to drip.

Once properly rinsed, some plastic pesticide containers can be taken to a container collection site or picked up for recycling. *[Alternative container disposal statement: Then offer the container for recycling, if available.]*

*[Optional container disposal statement: Some container manufacturers offer container recycling. See additional information regarding manufacturer recycling programs attached to this container, if available. If no recycling information is available on this container, contact your chemical dealer [Optional text: or INSERT COMPANY NAME at TELEPHONE NUMBER] [Optional text: or call 1-800-768-6387] [Alternative telephone numbers: 1-800-ROUNDUP (1-800-768-6387)] to find the nearest recycling location.]*

*[Optional container disposal statement: To find the nearest collection site, contact your chemical dealer [Optional text: or INSERT COMPANY NAME at TELEPHONE NUMBER] [Optional text: or call 1-800-768-6387] [Alternative telephone numbers: 1-800-ROUNDUP (1-800-768-6387)].]*

If recycling is not available, dispose of in accordance with federal, state and local regulations and procedures, which may include puncturing the properly rinsed container and disposing in a sanitary landfill.

*[Optional container disposal statement: Return Properly Rinsed Container for Recycling – Call 1-800-768-6387] [Alternative telephone numbers: 1-800-ROUNDUP (1-800-768-6387) or insert other appropriate telephone number]*

*[Optional additional container disposal statement: IBC EMPTY? – FREE CALL – 1-888-SCHUETZ (1-888-724-8389) [www.schuetz.net/ticket](http://www.schuetz.net/ticket); Schuetz ticket service]*

*[Optional additional container disposal statement: FREE IBC PICKUP] [For continental USA and Canada only.]*

*[Optional additional container disposal statement: RETURNnet SYSTEM – To return empty IBC's Email or Call – [www.returnnetsystem.com](http://www.returnnetsystem.com) – 1-888-758-SHIP – United States and Canada (1-888-758-7447 – IBCNA – Clarkston, Michigan – USA]*

### **[CONTAINER HANDLING AND DISPOSAL STATEMENT AND REFILLING LIMITATION FOR ALL REFILLABLE CONTAINERS, EXCEPT TRANSPORT VEHICLES]**

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

Cleaning this container before refilling is the responsibility of the refiller. Cleaning this container before final disposal is the responsibility of the person disposing of the container.

To clean this container before final disposal, empty the remaining contents from the container into application equipment or 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



## I. CONTAINER LABELING

rinsate collection system. Repeat this procedure two more times.

Then offer the container for recycling, if available.

[*Optional container disposal statement:* Some container manufacturers offer container recycling. See additional information regarding manufacturer recycling programs attached to this container, if available. If no recycling information is available on this container, contact your chemical dealer [*Optional text:* or *INSERT COMPANY NAME* at *TELEPHONE NUMBER*] [*Optional text:* or call 1-800-768-6387] [*Alternative telephone numbers:* 1-800-ROUNDUP (1-800-768-6387)] to find the nearest recycling location.]

If recycling is not available, dispose of in accordance with federal, state and local regulations and procedures, which may include puncturing the properly rinsed container and disposing in a sanitary landfill.

[*Optional additional container disposal statement:* IBC EMPTY? – FREE CALL – 1-888-SCHUETZ (1-888-724-8389) [www.schuetz.net/ticket](http://www.schuetz.net/ticket); Schuetz ticket service]

[*Optional additional container disposal statement:* FREE IBC PICKUP] [For continental USA and Canada only.]

[*Optional additional container disposal statement:* RETURNnet SYSTEM – To return empty IBC's Email or Call – [www.returnnetsystem.com](http://www.returnnetsystem.com) – 1-888-758-SHIP – United States and Canada (1-888-758-7447 – IBCNA – Clarkston, Michigan – USA]

[*Optional container disposal statement:* To obtain information about recycling refillable containers, [*Optional text:* contact *INSERT COMPANY NAME* at *TELEPHONE NUMBER*] [*Optional text:* [or] call 1-800-768-6387] [*Alternative telephone numbers:* 1-800-ROUNDUP (1-800-768-6387)].]

[*Optional container disposal statement:* Return Properly Rinsed Container for Recycling – Call 1-800-768-6387] [*Alternative telephone numbers:* 1-800-ROUNDUP (1-800-768-6387) or insert other appropriate telephone number]

[*Optional additional container label statements for the CUBE refillable packaging system only:*

### **CUBE** Refillable Delivery System

#### FEATURES INCLUDE:

- Automatic Venting
  - Heavy duty one-way 2-inch camloc ball valve with protective shield door
  - Complete coated steel protective enclosure
  - Durable 4-way plastic pallet
- Lift door to access one-way valve]

[*Optional label text:* For product information or assistance using this product call [*Optional text, if applicable:* toll-free] 1-800-332-3111 [*Or insert alternative telephone number, as appropriate.*].]

EPA Reg. No. 93236-5

EPA Est. [*Insert appropriate EPA establishment number or include checkbox for options:* 524-IA-1; 524-LA-1; or Other; or blank space] [*Optional text:* (Establishment Number when entered here supersedes all others)]

[*Alternative EPA establishment text:* EPA Est. (L) 524-LA-1 or (M) 524-IA-1 Lot number prefix (L) or (M) indicate appropriate establishment number.] [*This lot number relationship with the establishment number can be expanded or changed to include additional or add new producing sites as appropriate*]

[*Insert net contents, as appropriate:* NET [*insert appropriate value or leave blank line for refillable container*] GAL [*or other appropriate unit of measure*]] [*Alternative label text:* NET CONTENTS]

I. CONTAINER LABELING

[Optional text, if applicable: [Ranger Pro and Design; INSERT BRAND NAME and Design [and] TRUEBLUE ADVANTAGE PROVEN RELIABLE SUPPORT and Design] are [registered] trademarks of Seamless Control LLC.]

[Optional text, if applicable: All other trademarks are the property of their respective owners.]

Packed [Alternative text: Produced] [Alternative text: Manufactured] for:  
SEAMLESS CONTROL LLC  
14111 SCOTTSLAWN ROAD  
MARYSVILLE, OH 43041

©[YEAR]

[Insert LOT number or LOT number will be printed directly on the container]

[Insert print plate number and barcode(s) as applicable]

[Optional text: ATTACH COMPLETE DIRECTIONS FOR USE HERE]

[Optional text that will be hidden behind the attached Extended Content Label and only become visible if the ECL is removed: COMPLETE DIRECTIONS FOR USE HAVE BEEN REMOVED]

[Optional text: LABEL CONTINUED ON BACK]

[Optional label text: FOR CHEMICAL SPILL, LEAK, FIRE, OR EXPOSURE, CALL CHEMTREC AT (800) 424-9300]

**1.2 Extended Content**

[The following represents the complete label text that must appear on the additional pages attached to the container base label as an Extended Content Label with the complete directions for use.]

[FRONT PANEL]

**[INSERT BRAND NAME]** [Logo optional]

GLYPHOSATE	GROUP	9	HERBICIDE
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[Optional marketing claims and/or logos on this Master Label may be added to the Front Panel]

A [Optional text: complete] broad-spectrum postemergence herbicide for [Optional text, as applicable to the final printed labeling: industrial, turf, ornamental, forestry, roadside, utility rights-of-way, and other listed terrestrial area] weed control.

(For a complete list of uses, see the Directions for Use section inside this [Alternative text: the attached] labeling.)

[Optional statement for limited-geography product distribution: This product is not registered in all states.] [Optional text: See inside attached labeling for more details.]

[Additional optional statements for limited-geography product distribution: For control of annual and perennial weeds in] [list states and county-level information, as appropriate, where product is registered and distributed]. [Optional text: \*County Distribution:] [Optional text: see inside attached labeling for details.] [Optional text: In [list states] this product is distributed [Optional text: only] in the counties listed below:] [list counties by state]

AVOID CONTACT OF THIS HERBICIDE WITH FOLIAGE, [Optional text: GREEN] STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, AS SEVERE PLANT INJURY OR DESTRUCTION COULD RESULT.

I. CONTAINER LABELING

ACTIVE INGREDIENT:

*Glyphosate, N-(phosphonomethyl) glycine, in the form of its isopropylamine salt.....	41.0%
OTHER INGREDIENTS [ <i>Optional statement: (including surfactant):</i> .....	59.0%
	100.0%

\*Contains 480 grams of the active ingredient glyphosate, in the form of its isopropylamine salt, per liter or 4 pounds per U.S. gallon, which is equivalent to 356 grams of the acid, glyphosate, per liter or 3 pounds per U.S. gallon (30.4% by weight).

[*Optional label text that will be updated at the time of printing, if necessary:* This product is protected by [*Optional text: one or more of the following*] U.S. Patent No's. 5,683,958; 5,703,015; 6,063,733; 6,121,199; 6,121,200]

[*Optional label text, if applicable:* Other Patents Pending.]

[*Optional label text, if applicable:* No license granted under any non-U.S. patent(s).]

EPA Reg. No. 93236-5

EPA Est. [*Insert appropriate EPA establishment number: 524-IA-1; 524-LA-1; or Other; or blank space*]  
[*Optional text: (Establishment Number when entered here supersedes all others)*]

[*Alternative EPA establishment text: EPA Est. (L) 524-LA-1 or (M) 524-IA-1 Lot number prefix (L) or (M) indicate appropriate establishment number.*] [*This lot number relationship with the establishment number can be expanded or changed to include additional or add new producing sites, as appropriate*]

Keep out of reach of children

## CAUTION

[*Optional label statement, if applicable:* See inside [*Alternative text: back panel*] for additional [*Optional text, as applicable: Precautions [and] First Aid.*]

FIRST AID	
<b>IF IN EYES</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<ul style="list-style-type: none"><li>• Have the product container or labeling with you when calling a poison control center or doctor, or going for treatment.</li><li>• You can also call [<i>Optional text, if applicable: toll-free</i>] <b>(314) 694-4000</b> [<i>Or insert alternative telephone number, as appropriate</i>] [<i>Optional text, if applicable: collect, day or night,</i>] for emergency medical treatment information.</li><li>• This product is identified as <b>[INSERT BRAND NAME], EPA Registration No. 93236-5.</b></li></ul>	

See inside for Complete Directions for Use [*Optional text: in English and Spanish*].

[*Alternative label statement:* See attached labeling for Complete Directions for Use [*Optional text: in English and Spanish.*]

Read the entire label before using this product.

Use only according to label directions.

## I. CONTAINER LABELING

Read the LIMIT OF WARRANTY AND LIABILITY statement [*Optional text, if statement not included on the container label: at the end of the attached labeling*] before buying or using. If terms are not acceptable, return at once unopened.

[*Insert net contents, as appropriate: NET [insert appropriate value or leave blank line for refillable container] GAL [or other appropriate unit of measure]] [Alternative text: NET CONTENTS]*

Packed [*Alternative text: Produced*] [*Alternative text: Manufactured*] for:

SEAMLESS CONTROL LLC  
14111 SCOTTSLAWN ROAD  
MARYSVILLE, OH 43041

©[YEAR]

[*Insert date*]

[*Insert print plate number and barcode(s) as applicable*]

[*Optional text: Open Here*]

[*EXTENDED CONTENT*]

[*For Extended Content Label, insert Complete Directions for Use, beginning with the Table of Contents from Part II of this Master Label*]

## 2.0 SECONDARY PACKAGING FOR SHIPPING AND SALE

[*This section defines labeling for secondary packaging of multiple units of this product that are themselves fully labeled for individual sale, but are distributed and can also be sold as a multi-pack unit.*]

### 2.1 Secondary Packaging for Two 2.5-Gallon Nonrefillable Containers

[*FRONT PANEL*]

[**INSERT BRAND NAME**] [*Logo optional*]

GLYPHOSATE	GROUP	9	HERBICIDE
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[*Optional marketing claims and/or logos included on this Master Label may be added to this secondary packaging*]

A [*Optional text: complete*] broad-spectrum postemergence herbicide for [*Optional text, as applicable to final printed labeling: industrial, turf, ornamental, forestry, roadside, utility rights-of-way, and other listed terrestrial area*] weed control.

(For a complete list of use sites, see the Directions for Use section of the attached labeling [*Optional text: booklet*] inside.)

[*Optional label text: FOR CHEMICAL SPILL, LEAK, FIRE, OR EXPOSURE, CALL CHEMTREC AT (800) 424-9300*]

[*Optional statement for limited-geography product distribution: This product is not registered in all states.*] [*Optional text: See labeling [Optional text: booklet] inside for more details.*]

[*Additional optional statements for limited-geography product distribution: For control of annual and perennial weeds in [list states and county-level information as appropriate where product is registered and distributed]. [Optional text: \*County Distribution:] [Optional text: see labeling [Optional text: booklet]*]

I. CONTAINER LABELING

inside for details.] [Optional text: In [list states] this product is distributed [Optional text: only] in the counties listed below:] [list counties by state]

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ACTIVE INGREDIENT:

\*Glyphosate, N-(phosphonomethyl)glycine, in the form of its isopropylamine salt..... 41.0%  
OTHER INGREDIENTS [Optional statement: (including surfactant)]:..... 59.0%  
100.0%

\*Contains 480 grams of the active ingredient glyphosate, in the form of its isopropylamine salt, per liter or 4 pounds per U.S. gallon, which is equivalent to 356 grams of the acid, glyphosate, per liter or 3 pounds per U.S. gallon (30.4% by weight).

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[Optional label text that will be updated at the time of printing, if necessary: This product is protected by [Optional text: one or more of the following] U.S. Patent Nos. 5,683,958; 5,703,015; 6,063,733; 6,121,199; 6,121,200.]

[Optional label text, if applicable: Other Patents Pending.]

[Optional label text, if applicable: No license granted under any non-U.S. patent(s).]

EPA Reg. No. 93236-5

EPA Est. [Insert appropriate EPA establishment number: 524-IA-1; 524-LA-1; or other]

[Alternative EPA establishment text: EPA Est. (L) 524-LA-1 or (M) 524-IA-1 Lot number prefix (L) or (M) indicate appropriate establishment number.] [This lot number relationship with the establishment number can be expanded or changed to include additional or add new producing sites, as appropriate.]

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Keep out of reach of children

## CAUTION

[Optional label text, if applicable: See side panel for additional [Optional text, as applicable: Precautions [and] First Aid].]

See labeling booklet inside for Complete Directions for Use [Optional text: in English and Spanish].

[Alternative label text: See attached labeling inside for Complete Directions for Use [Optional text: in English and Spanish].]

Read the entire label before using this product.

Use only according to label directions.

AVOID CONTACT OF THIS HERBICIDE WITH FOLIAGE, [Optional text: GREEN] STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, AS SEVERE PLANT INJURY OR DESTRUCTION COULD RESULT.

Read the LIMIT OF WARRANTY AND LIABILITY statement [Optional text, if applicable: on side panel] before buying or using. If terms are not acceptable, return at once unopened.

Two 2.5 GAL Units

Packed [Alternative text: Produced] [Alternative text: Manufactured] for:

SEAMLESS CONTROL LLC  
14111 SCOTTS LAWN ROAD  
MARYSVILLE, OH 43041

©[YEAR]

I. CONTAINER LABELING

[Insert print plate number and barcode(s) as applicable]

[ADDITIONAL CONTENT]

---

**PRECAUTIONARY STATEMENTS**

---

Hazards to Humans and Domestic Animals

---

Keep out of reach of children

**CAUTION**

Causes moderate eye irritation

Avoid contact with eyes or clothing

<b>FIRST AID</b>	
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice</li> </ul>
<ul style="list-style-type: none"> <li>• Have the product container or labeling with you when calling a poison control center or doctor, or going for treatment.</li> <li>• You can also call [<i>Optional text, if applicable: toll-free</i>] <b>(314) 694-4000</b> [<i>Or insert alternative telephone number, as appropriate</i>] [<i>Optional text, if applicable: collect, day or night,</i>] for emergency medical treatment information.</li> <li>• This product is identified as [<b>INSERT BRAND NAME</b>], <b>EPA Registration No. 93236-5.</b></li> </ul>	

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

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**Personal Protective Equipment (PPE)**

**Applicators and other handlers must wear:** long-sleeved shirt and long pants, socks and shoes.

Follow manufacturer’s instructions for cleaning/maintaining Personal Protective Equipment (PPE). If there are no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations**

Users should:

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

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Environmental Hazards

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## I. CONTAINER LABELING

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

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### Physical or Chemical Hazards

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

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas, which can form a highly combustible gas mixture. This gas mixture could flash or explode if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source and cause serious personal injury.

Do not mix or allow coming in contact with oxidizing or reducing agents. Hazardous chemical reaction may occur.

---

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This product may only be used in accordance with the Directions for Use on this label.

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

#### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to "AGRICULTURAL USE REQUIREMENTS" in the DIRECTIONS FOR USE section for information about this standard.

#### 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.

See labeling booklet [*Alternative text for ECL: attached labeling*] inside for complete [*Optional text, as applicable: Agricultural [and] Non-Agricultural Use Requirements of the Worker Protection Standard, Directions for Use [and] Limit of Warranty and Liability*] [*Optional text: in English and Spanish*].

#### STORAGE AND DISPOSAL

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

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

## I. CONTAINER LABELING

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

**CONTAINER HANDLING AND DISPOSAL:** [NOTE: Container Handling and Disposal Statement must match exactly the statement that is on the 2.5-gallon container inside the packaging.]

Nonrefillable container. Do not reuse the container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state.

[Alternative container statement: Nonrefillable container. Do not reuse or refill the container.]

Triple rinse or pressure rinse (or equivalent) the container promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or mix-tank and continue to drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix-tank, or store rinsate for later use or disposal. Continue to drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix-tank and continue to drain for 10 seconds after the flow begins to drip. Place container so that it can drain directly into application equipment or mix-tank while rinsing, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle into the side of the container and rinse at about 40 PSI for at least 30 seconds. Continue to drain for 10 seconds after the flow begins to drip.

Once properly rinsed, some plastic pesticide containers can be taken to a container collection site or picked up for recycling. [Alternative container disposal statement: Then offer the container for recycling, if available.]

[Optional container disposal statement: To find the nearest collection site, contact your chemical dealer [Optional text: or INSERT COMPANY NAME at TELEPHONE NUMBER] [Optional text: or call 1-800-768-6387] [Alternative telephone numbers: 1-800-ROUNDUP (1-800-768-6387)].]

If recycling is not available, dispose of in accordance with federal, state and local regulations and procedures, which may include puncturing the properly rinsed container and disposing in a sanitary landfill.

For product information or assistance using this product, call [Optional text, if applicable: toll-free] 1-800-332-3111 [Or insert alternative telephone number, as appropriate].

### LIMIT OF WARRANTY AND LIABILITY

Seamless Control LLC ("Company") warrants that this product conforms to the chemical description on the label. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall use this product only for the purposes of and in accordance with the Complete Directions for Use label ("Directions") and shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

To the extent consistent with applicable law, buyer and all users are responsible for all loss, injuries or



## I. CONTAINER LABELING

damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, crop injury or failure of this product to control weed biotypes which develop resistance to glyphosate, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, use and/or application in any manner not explicitly set forth in or inconsistent the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

This Company does not warrant any product reformulated or repackaged from this product except in accordance with this Company's stewardship requirements and with express written permission from this Company.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Upon opening and using this product, buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement. If terms are not acceptable, return at once unopened.

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[Optional text, if applicable: [Ranger Pro and Design; *INSERT BRAND NAME and Design* [and] TRUEBLUE ADVANTAGE PROVEN RELIABLE SUPPORT and Design] are [registered] trademarks of Seamless Control LLC.]

[Optional text, if applicable: All other trademarks are the property of their respective owners.]

[Insert UN packaging certification, if applicable]

[Optional packaging text: Pull at scored cutouts for easier opening]

[Optional packaging text: THIS SIDE UP] [Optional graphic of two arrows pointing upward]

[Optional packaging text: Liquid] [Optional graphic of a liquid droplet]

### 3.0 TRANSPORT VEHICLE LABEL (AS DEFINED AT 40 CFR § 156.3)

**[INSERT BRAND NAME]** [*Logo optional*]

GLYPHOSATE	GROUP	9	HERBICIDE
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[Optional marketing claims and/or logos included on this Master Label may be added to this label.]

A [Optional text: complete] broad-spectrum postemergence herbicide for [Optional text, as applicable to the final printed labeling: industrial, turf, ornamental, forestry, roadside, utility rights-of-way, and other listed terrestrial area] weed control.

[Optional label text: FOR CHEMICAL SPILL, LEAK, FIRE, OR EXPOSURE, CALL CHEMTREC AT (800) 424-9300]

I. CONTAINER LABELING

[Optional statement for limited-geography product distribution: This product is not registered in all states.]

FOR BULK PESTICIDE TRANSPORT ONLY

ACTIVE INGREDIENT:

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

OTHER INGREDIENTS [Optional statement: (including surfactant)]:..... 59.0%

100.0%

\*Contains 480 grams of the active ingredient Glyphosate, in the form of its isopropylamine salt, per liter or 4 pounds per U.S. gallon, which is equivalent to 356 grams of the acid, Glyphosate, per liter or 3 pounds per U.S. gallon (30.4% by weight).

[Optional label text that will be updated at the time of printing, if necessary: This product is protected by [Optional text: one or more of the following] U.S. Patent No's. 5,683,958; 5,703,015; 6,063,733; 6,121,199; 6,121,200.]

[Optional label text, if applicable: Other patents pending.]

[Optional label text, if applicable: No license granted under any non-U.S. patent(s).]

EPA Reg. No. 93236-5

EPA Est. [Insert appropriate EPA establishment number: 524-IA-1; 524-LA-1; or Other; or blank space]

[Optional text: (Establishment Number when entered here supersedes all others)]

[Alternative EPA establishment text: EPA Est. (L) 524-LA-1 or (M) 524-IA-1 Lot number prefix (L) or (M) indicate appropriate establishment number.] [This lot number relationship with the establishment number can be expanded or changed to include additional or add new producing sites, as appropriate.]

**PRECAUTIONARY STATEMENTS**

Hazards to Humans and Domestic Animals

Keep out of reach of children

**CAUTION**

Causes moderate eye irritation

Avoid contact with eyes or clothing

FIRST AID	
<b>IF IN EYES</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<ul style="list-style-type: none"><li>• Have the product container or labeling with you when calling a poison control center or doctor, or going for treatment.</li><li>• You can also call [Optional text, if applicable: toll-free] <b>(314) 694-4000</b> [Or insert alternative telephone number, as appropriate], [Optional text, if applicable: collect, day or night,] for emergency medical treatment information.</li><li>• This product is identified as <b>[INSERT BRAND NAME], EPA Registration No. 93236-5.</b></li></ul>	

## I. CONTAINER LABELING

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

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### Personal Protective Equipment (PPE)

**Applicators and other handlers must wear:** long-sleeved shirt and long pants, socks and shoes.

Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If there are no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### User Safety Recommendations

Users should:

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

---

### Environmental Hazards

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

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### Physical or Chemical Hazards

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

**DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS.** This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas, which can form a highly combustible gas mixture. This gas mixture could flash or explode if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source and cause serious personal injury.

Do not mix or allow coming in contact with oxidizing or reducing agents. Hazardous chemical reaction may occur.

---

### DIRECTIONS FOR USE

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

---

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests,

## I. CONTAINER LABELING

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.

For early entry into 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, wear: coveralls, socks and shoes, and waterproof gloves.

### 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.

FOR BULK PESTICIDE TRANSPORT ONLY

### STORAGE AND DISPOSAL

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

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

**PESTICIDE DISPOSAL:** To avoid waste, empty as much product from this transport vehicle as possible for repackaging or use in accordance with label directions. If wastes cannot be avoided, offer remaining product or rinsate to a waste disposal facility or pesticide disposal program. All disposal must be in accordance with applicable federal, state and local regulations and procedures.

**CONTAINER HANDLING AND DISPOSAL:** Emptied transport vehicle container retains vapor and product residue. Observe all precautions stated on this label until the container is cleaned, reconditioned or destroyed. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, and worn-out threads and closures. Clean thoroughly before reuse for transportation of a material of different composition or before retiring this transport vehicle container from service.

### THIS LABEL FOR USE WITH TRANSPORT VEHICLES ONLY

[Optional text, if applicable: [Ranger PRO and Design; *INSERT BRAND NAME and Design* [and] TRUEBLUE ADVANTAGE PROVEN RELIABLE SUPPORT and Design] are [registered] trademarks of Seamless Control LLC.]

[Optional text, if applicable: All other trademarks are the property of their respective owners.]

Packed [Alternative text: Produced] [Alternative text: Manufactured] for:

SEAMLESS CONTROL LLC  
14111 SCOTTSLAWN ROAD  
MARYSVILLE, OH 43041

©[YEAR]

I. CONTAINER LABELING

NET [*Insert net contents or blank space*] GAL [*or other unit of measure, as appropriate*]  
[*Alternative label statement: NET CONTENTS:*] [*Insert net contents or blank space*]  
[*Alternative label statement: NET CONTENTS: See Bill of Lading*]

LOT [*Insert Lot number or blank space*]  
[*Alternative label statement: LOT: See Bill of Lading*]

[*Alternative label statement: For Net Contents and Lot Number, see the Bill of Lading*]  
[*Insert print plate number and barcode(s), as applicable*]

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

**[INSERT BRAND NAME]** [Logo]

### Complete Directions for Use

GLYPHOSATE	GROUP	9	HERBICIDE
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EPA Reg. No. 93236-5

A [*Optional text: complete*] broad-spectrum postemergence herbicide for [*Optional text, as applicable to the final printed labeling: industrial, turf, ornamental, forestry, roadside, utility rights-of-way, and other listed terrestrial area*] weed control.

(For a complete list of use sites, see the Directions for Use section of this label.)

[*Optional label text: FOR CHEMICAL SPILL, LEAK, FIRE, OR EXPOSURE, CALL CHEMTREC AT (800) 424-9300*]

[*Optional statement for limited-geography product distribution: This product is not registered in all states.*]

[*Additional optional statements for limited-geography product distribution: For control of annual and perennial weeds in [list states and or county-level information, as appropriate, where product is registered and distributed]. [Optional text: \*County Distribution:] [Optional text: see inside for details.] [Optional text: In [list states] this product is distributed [Optional text: only] in the counties listed below:] [list counties by state]*]

[*Additional optional statement for limited-geography product distribution: This product is not registered for use in [list states, if any, where this product is not registered for use]*]

AVOID CONTACT OF THIS HERBICIDE WITH FOLIAGE, [*Optional text: GREEN*] STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, AS SEVERE PLANT INJURY OR DESTRUCTION COULD RESULT.

[*Optional label statement: TrueBlue Advantage – Proven – Reliable – Supported® (Logo)*]

Read the entire label before using this product.

Use only according to label directions.

Not all products listed on this label are registered for use in California. Check the registration status of each product in California before using.

Read the "LIMIT OF WARRANTY AND LIABILITY" statement at the end of this labeling before buying or using. If terms are not acceptable, return at once unopened.

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**1.0 INGREDIENTS**

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ACTIVE INGREDIENT:

*Glyphosate, N-(phosphonomethyl)glycine, in the form of its isopropylamine salt.....	41.0%
OTHER INGREDIENTS [ <i>Optional statement:</i> (including surfactant)]:.....	59.0%
	<u>100.0%</u>

\*Contains 480 grams of the active ingredient glyphosate, in the form of its isopropylamine salt, per liter or 4 pounds per U.S. gallon, which is equivalent to 356 grams of the acid, glyphosate, per liter or 3 pounds per U.S. gallon (30.4% by weight).

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## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

[Optional label text that will be updated at the time of printing, if necessary: This product is protected by [Optional text: one or more of the following] U.S. Patent Nos. 5,683,958; 5,703,015; 6,063,733; 6,121,199; 6,121,200.]

[Optional label text, if applicable: Other Patents Pending.]

[Optional label text, if applicable: No license granted under any non-U.S. patent(s).]

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### 2.0 IMPORTANT PHONE NUMBERS

1. FOR PRODUCT INFORMATION OR ASSISTANCE USING THIS PRODUCT, CALL [Optional text, if applicable: TOLL-FREE, COLLECT, DAY OR NIGHT],  
(800) 332-3111 [Or insert alternative telephone number, as appropriate]
2. IN CASE OF AN EMERGENCY INVOLVING THIS PRODUCT, OR FOR MEDICAL ASSISTANCE, CALL [Optional text, if applicable: TOLL-FREE, COLLECT, DAY OR NIGHT],  
(314) 694-4000 [Or insert alternative telephone number, as appropriate]

### 3.0 PRECAUTIONARY STATEMENTS

#### 3.1 Hazards to Humans and Domestic Animals

Keep out of reach of children

## CAUTION

Causes moderate eye irritation

Avoid contact with eyes or clothing

FIRST AID	
<b>IF IN EYES</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li><li>• Remove contact lenses if present after the first 5 minutes then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<ul style="list-style-type: none"><li>• Have the product container or labeling with you when calling a poison control center or doctor, or going for treatment.</li><li>• You can also call [Optional text, if applicable: toll-free] <b>(314) 694-4000</b> [Or insert alternative telephone number, as appropriate] [Optional text, if applicable: collect day or night,] for emergency medical treatment information.</li><li>• This product is identified as <b>[INSERT BRAND NAME], EPA Registration No. 93236-5.</b></li></ul>	

**DOMESTIC ANIMALS:** This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation could result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide 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, socks and shoes.



## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If there are no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### **User Safety Recommendations:**

Users should:

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

### **3.2 Environmental Hazards**

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

### **3.3 Physical or Chemical Hazards**

Mix, store and apply spray solutions of this product using stainless steel, fiberglass, plastic or plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas, which can form a highly combustible gas mixture. This gas mixture could flash or explode if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source and cause serious personal injury.

Do not mix or allow coming in contact with oxidizing or reducing agents. Hazardous chemical reaction may occur.

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## **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This product may only be used in accordance with the Directions for Use on this label.

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

### **Agricultural Use Requirements**

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

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

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

For early entry into 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, wear: coveralls, socks and shoes, and waterproof gloves.

### Non-Agricultural Use Requirements

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

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

#### 4.0 STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep container closed to prevent spills and contamination. See individual container label for additional storage conditions, if any.

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

**CONTAINER HANDLING AND DISPOSAL:** [Optional label text if applicable: See container label for container handling and disposal instructions and refilling limitations.] [Alternative optional text for ECL label: See base label attached to the container for container handling and disposal instructions and refilling limitation.]

#### [CONTAINER HANDLING AND DISPOSAL STATEMENT AND REFILLING LIMITATION FOR NONREFILLABLE RIGID CONTAINERS OF LESS THAN 1-GALLON CAPACITY]

Nonrefillable container. Do not reuse or refill the container.

[Alternative container statement: Nonrefillable container. Do not reuse the container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state.]

Triple rinse the container promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or mix-tank and continue to drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix-tank, or store rinsate for later use or disposal. Continue to drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Once properly rinsed, some plastic pesticide containers can be taken to a container collection site or picked up for recycling. [Alternative container disposal statement: Then offer the container for recycling, if available.]

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[*Optional container disposal statement:* To find the nearest collection site, contact your chemical dealer [*Optional text:* or INSERT COMPANY NAME at TELEPHONE NUMBER] [*Optional text:* or call 1-800-768-6387] [*Alternative telephone numbers:* 1-800-ROUNDUP (1-800-768-6387)].]

If recycling is not available, dispose of in accordance with federal, state and local regulations and procedures, which may include puncturing the properly rinsed container and disposing in a sanitary landfill.

### [CONTAINER HANDLING AND DISPOSAL STATEMENT AND REFILLING LIMITATION FOR NONREFILLABLE RIGID PLASTIC 2.5-GALLON CONTAINER AND OTHER NONREFILLABLE CONTAINERS OF GREATER THAN 1-GALLON BUT EQUAL TO OR LESS THAN 5-GALLON CAPACITY]

Nonrefillable container. Do not reuse the container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state.

[*Alternative container statement:* Nonrefillable container. Do not reuse or refill the container.]

Triple rinse or pressure rinse (or equivalent) the container promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or mix-tank and continue to drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix-tank, or store rinsate for later use or disposal. Continue to drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix-tank and continue to drain for 10 seconds after the flow begins to drip. Place container so that it can drain directly into application equipment or mix-tank while rinsing, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle into the side of the container and rinse at about 40 PSI for at least 30 seconds. Continue to drain for 10 seconds after the flow begins to drip.

Once properly rinsed, some plastic pesticide containers can be taken to a container collection site or picked up for recycling. [*Alternative container disposal statement:* Then offer the container for recycling, if available.]

[*Optional container disposal statement:* To find the nearest collection site, contact your chemical dealer [*Optional text:* or INSERT COMPANY NAME at TELEPHONE NUMBER] [*Optional text:* or call 1-800-768-6387] [*Alternative telephone numbers:* 1-800-ROUNDUP (1-800-768-6387)].]

If recycling is not available, dispose of in accordance with federal, state and local regulations and procedures, which may include puncturing the properly rinsed container and disposing in a sanitary landfill.

### [CONTAINER HANDLING AND DISPOSAL STATEMENT AND REFILLING LIMITATION FOR NONREFILLABLE RIGID PLASTIC 30-GALLON CONTAINER AND OTHER NONREFILLABLE CONTAINERS OF GREATER THAN 5-GALLON CAPACITY]

Nonrefillable container. Do not reuse or refill the container.

[*Alternative container statement:* Nonrefillable container. Do not reuse the container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to

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temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state.]

Triple rinse or pressure rinse (or equivalent) the container promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or mix-tank. [*Optional label text:* For containers not equipped with pumping systems,] Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth for 30 seconds, ensuring at least one complete revolution. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or mix-tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

[*Alternative or additional triple rinsing instructions for large containers equipped with pumping systems:* [*Optional label text:* For large containers equipped with pumping systems,] 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 procedure two more times.]

Pressure rinse as follows: Empty the remaining contents into application equipment or mix-tank and continue to drain for 10 seconds after the flow begins to drip. Place container so that it can drain directly into application equipment or mix-tank while rinsing, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle into the side of the container and rinse at about 40 PSI for at least 30 seconds. Continue to drain for 10 seconds after the flow begins to drip.

Once properly rinsed, some plastic pesticide containers can be taken to a container collection site or picked up for recycling. [*Alternative container disposal statement:* Then offer the container for recycling, if available.]

[*Optional container disposal statement:* Some container manufacturers offer container recycling. See additional information regarding manufacturer recycling programs attached to the container, if available. If no recycling information is available on the container, contact your chemical dealer [*Optional text:* or *INSERT COMPANY NAME* at *TELEPHONE NUMBER*] [*Optional text:* or call 1-800-768-6387] [*Alternative telephone numbers:* 1-800-ROUNDUP (1-800-768-6387)] to find the nearest recycling location.]

[*Optional container disposal statement:* To find the nearest collection site, contact your chemical dealer [*Optional text:* or *INSERT COMPANY NAME* at *TELEPHONE NUMBER*] [*Optional text:* or call 1-800-768-6387] [*Alternative telephone numbers:* 1-800-ROUNDUP (1-800-768-6387)].]

If recycling is not available, dispose of in accordance with federal, state and local regulations and procedures, which may include puncturing the properly rinsed container and disposing in a sanitary landfill.

[*Optional container disposal statement:* Return Properly Rinsed Container for Recycling – call 1-800-768-6387] [*Alternative telephone numbers:* 1-800-ROUNDUP (1-800-768-6387)]

[*Optional additional container disposal statement:* IBC EMPTY? – FREE CALL – 1-888-SCHUETZ (1-888-724-8389) [www.schuetz.net/ticket](http://www.schuetz.net/ticket); Schuetz ticket service]

[*Optional additional container disposal statement:* FREE IBC PICKUP] [For continental USA and Canada only.]

[*Optional additional container disposal statement:* RETURNnet SYSTEM – To return empty IBC's Email or Call – [www.returnnetsystem.com](http://www.returnnetsystem.com) – 1-888-758-SHIP – United States and Canada (1-888-758-7447 – IBCNA – Clarkston, Michigan – USA]

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### *[CONTAINER HANDLING AND DISPOSAL STATEMENT AND REFILLING LIMITATION FOR ALL REFILLABLE CONTAINERS, EXCEPT TRANSPORT CONTAINERS]*

Refillable container. Refill the container with pesticide only. Do not reuse the container for any other purpose.

Cleaning the container before refilling is the responsibility of the refiller. Cleaning the container before final disposal is the responsibility of the person disposing of the container.

To clean the container before final disposal, empty the remaining contents from the container into application equipment or 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 procedure two more times.

Then offer the container for recycling, if available. *[Optional container disposal statement: Some container manufacturers offer container recycling. See additional information regarding manufacturer recycling programs attached to the container, if available. If no recycling information is available on the container, contact your chemical dealer [Optional text: or INSERT COMPANY NAME at TELEPHONE NUMBER] [Optional text: or call 1-800-768-6387 [Alternative telephone numbers: 1-800-ROUNDUP (1-800-768-6387)] to find the nearest recycling location.]*

*[Optional container disposal statement: To obtain information about recycling refillable containers, [Optional text: contact INSERT COMPANY NAME at TELEPHONE NUMBER] [Optional text: [or] call 1-800-768-6387] [Alternative telephone numbers: 1-800-ROUNDUP (1-800-768-6387)].]*

If recycling is not available, dispose of in accordance with federal, state and local regulations and procedures, which may include puncturing the properly rinsed container and disposing in a sanitary landfill.

*[Optional container disposal statement: Return Properly Rinsed Container for Recycling – Call 1-800-768-6387] [Alternative telephone numbers: 1-800-ROUNDUP (1-800-768-6387) or insert other appropriate telephone number]*

*[Optional additional container disposal statement: IBC EMPTY? – FREE CALL – 1-888-SCHUETZ (1-888-724-8389) www.schuetz.net/ticket; Schuetz ticket service]*

*[Optional additional container disposal statement: FREE IBC PICKUP] [For continental USA and Canada only.]*

*[Optional additional container disposal statement: RETURNnet SYSTEM – To return empty IBC's Email or Call – www.returnnetsystem.com – 1-888-758-SHIP – United States and Canada (1-888-758-7447 – IBCNA – Clarkston, Michigan – USA]*

## 5.0 PRODUCT INFORMATION

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

*[Optional label text: Do not add [Optional label text: surfactants, additives containing surfactants,] buffering agents or pH adjusting agents to the spray solution when [INSERT BRAND NAME] is the only pesticide being applied, unless otherwise directed. See the "MIXING" section of this label for instructions regarding other additives.]*

*[Optional label text: No additional surfactant in the spray solution is needed. This includes additives*

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

containing surfactants, buffering agents or pH adjusting agents when [INSERT BRAND NAME] is the only pesticide used, unless otherwise directed.]

**Mechanism of Action:** The active ingredient in this product inhibits an enzyme found only in plants and microorganisms that is essential to the formation of specific amino acids.

**No Soil Activity:** This product binds tightly to soil particles and does not provide residual weed control. Weeds must be emerged at the time of application to be controlled by foliar application of this product. Weed seeds in the soil will not be affected by this product and will continue to germinate. Unattached plant rhizomes and rootstocks beneath the soil surface will not be affected by this product.

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

**Stage of Weeds:** Annual weeds are easiest to control when they are small. Performance of this product on most perennial weeds is best when applied at late growth stages approaching maturity. Refer to the "WEEDS CONTROLLED" section of this label for more information on the control of specific weeds.

**Cultural Considerations:** Reduced weed control could result when this product is applied to annual or perennial weeds that have been mowed, grazed or cut, and have not been allowed to re-grow prior to application. Always use a higher application rate of this product within a given range when weed growth is heavy or dense, or when weeds are growing in an undisturbed (non-cultivated) area. Reduced weed control could result when this product is applied to weeds that show signs of disease or insect damage, are covered with dust, or are surviving under poor growing conditions.

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

**Rainfastness:** Rainfall within 4 hours of application could wash this product off of the foliage and a second application might then be needed to achieve acceptable weed control. Refer to specific use sections of this label for additional information on minimum intervals required, if any, before re-application of this product.

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

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

Unless otherwise specified on this label, the combined total of all applications of this product on a site must not exceed 10.6 quarts of this product (8 pounds of glyphosate acid) per acre per year.

### 6.0 WEED RESISTANCE MANAGEMENT

GLYPHOSATE	GROUP	9	HERBICIDE
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Glyphosate, the active ingredient in this product, is a Group 9 herbicide based on the mechanism of action classification system of the Weed Science Society of America. Any weed population can contain plants that are naturally resistant to Group 9 herbicides. Weeds resistant to Group 9 herbicides can be effectively managed by using another herbicide from a different Group (either alone or in a mixture according to label directions), by using other cultural or mechanical methods of weed control, or a combination of the two. Consult your local company representative, state cooperative extension agent, professional consultant or other qualified authority to determine appropriate actions for controlling specific resistant weeds.

### 6.1 Weed Management Practices

Resistant populations arise when rare individual plants are uncontrolled by a normal dose of a given herbicide under normal environmental conditions. In the absence of other control measures these individuals survive, produce seed, and eventually become the dominant biotype in the field through continuous selection. The best means of reducing this selection is to use diverse weed control practices, such as multiple herbicides with different mechanisms of action, and often in combination with various mechanical and cultural practices.

Suspected herbicide resistance can be identified by these factors:

- Failure to control a weed species normally controlled by the herbicide at the dose applied, especially when control is achieved on adjacent weeds
- A spreading patch of non-controlled plants of a particular species
- Surviving plants mixed with controlled individuals of the same species

To minimize the occurrence of herbicide-resistant biotypes, including those resistant to glyphosate, implement the following weed management practice options that are practical to your situation. These management practices are applicable to reduce the spread of suspected and confirmed resistant biotypes (managing existing resistant biotypes) and to reduce the potential for selecting for resistance in new species (proactive resistance management).

- Use a diversified approach toward weed management focused on preventing weed seed production and reducing the number of weed seeds in the soil.
- Plant seed that is as weed-free as possible.
- Scout application sites routinely, before and after herbicide application.
- Use multiple herbicide mechanisms of action that are effective against the most troublesome weeds on your application site and against those with known resistance.
- Apply herbicides at application rates listed on the label when weeds are within the size range indicated on the label.
- Emphasize cultural practices that suppress weeds by using crop competitiveness.
- Use mechanical and biological weed management practices, where appropriate.
- Prevent field-to-field and within-field movement of weed seed or vegetative propagules.
- Manage weed seed at harvest and after harvest to prevent a buildup of the weed seedbank.

### 6.2 Management of Glyphosate-Resistant Biotypes

Appropriate testing is needed to determine if a weed is resistant to glyphosate. Call 1-800-768-6387 [*Alternative telephone numbers: 1-800-ROUNDUP (1-800-768-6387)*] [*Optional alternative text: INSERT COMPANY NAME AND/OR TELEPHONE NUMBER*] [*Optional alternative text: [or] contact your Seamless Control Representative*] to report any incidence of non-performance of this product against a

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particular weed species or to determine if resistance in any particular weed biotype has been confirmed in your area [*Optional additional text:*, or visit on the Internet at [www.weedresistancemanagement.com](http://www.weedresistancemanagement.com) or [www.weedscience.org](http://www.weedscience.org)].

Glyphosate-resistant weeds can be controlled or managed by applying this product in combination with residual preemergence herbicides and/or other postemergence herbicides labeled for control of the targeted weed on the site of application. For more information, see the "WEEDS CONTROLLED" section of this label.

Since the occurrence of resistant weeds is difficult to detect before use, to the extent consistent with applicable law, Seamless Control LLC accepts no liability for any losses that result from the failure of this product to control resistant weeds.

### 7.0 MIXING

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

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

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

A 50-mesh nozzle screen or line strainer on the spray equipment is adequate.

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

#### 7.1 Mixing with Water

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

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

#### 7.2 Tank Mixtures

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

When a tank-mix with a generic active ingredient such as 2,4-D, diuron or dicamba, or any other product or material, is listed on this label, the user is responsible for ensuring that the specific application being made and the use site are included on the label of the product used in the mix.

Seamless Control has not tested all tank-mix product formulations for compatibility, antagonism or reduction in product performance. Mixing this product with herbicides or other materials not specified on this label could result in reduced performance of this product. To the extent consistent with applicable law, buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly specified on this label or Fact Sheets published for this product.



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Refer to all individual product labels, supplemental labeling and Fact Sheets for all products in the tank mixture and observe all precautions and limitations on the label, including any application timing and soil restrictions. It is the responsibility of the pesticide user to ensure that the intended use is included on the label of all products added to a tank mixture. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

This product may be applied at rates listed on this label in a tank mixture with the following products to provide preemergence and/or improved postemergence control of weeds listed on the individual product labels.

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*[Active ingredients and products to be added to the final printed label for tank-mixing may be selected from the following list:*

2,4-D; atrazine; dicamba; bromacil; diuron; imazapyr; metsulfuron methyl; oryzalin; pendimethalin, prodiamine; simazine; sulfosulfuron; trichlopyr

Arsenal; Arsenal Herbicide Applicators Concentrate; Banvel; Banvel 480; Barricade 4L; Barricade 65WG; Certainty® Turf; Chopper Gen2; Crossbow; Endurance; Escort XP; Forestry Garlon 4 Specialty; Forestry Garlon XLT Specialty; Gallery SC; Gallery 75 Dry Flowable Specialty; Garlon 3A Specialty; Garlon 4 Specialty; Garlon 4 Ultra Specialty; Goal 2XL; GoalTender; Habitat; Hyvar X; Hyvar XL; Karmex DF; Krenite S Brush Control Agent; Krovar I DF; Landmark; Landmark XP; Oust Extra; Oust XP; Outrider; Plateau; Poast; Poast Plus; Ronstar 50 WSP; Ronstar Flo; Ronstar G; Sahara DG; Spike 20P Specialty; Spike 80 DF Specialty; Stalker; Surflan AS Specialty; Surflan Flex; Surflan Flex T&O; Surflan XL 2G; Surflan Pro; Telar XP; Tordon 101 Mixture Specialty; Tordon 22K Specialty; Tordon K Herbicide Specialty; Transline Specialty; Vanquish; Velpar DF CU; Velpar DF VU; Velpar L; Velpar L CU; Velpar L VU]

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When used in combination as described on this label, and to the extent consistent with applicable law, the liability of Seamless Control LLC shall in no manner extend to any damage, loss or injury not solely and directly caused by the inclusion of the Seamless Control product in such combination use.

### **7.3 Tank-Mixing Procedure**

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

Add individual tank-mix components to the tank in the following order: wettable powders, flowables, emulsifiable concentrates, drift reduction additives, water soluble liquids (this product) [*Optional text:* , surfactants]. Ensure that the tank-mix products are well mixed in the spray solution before adding this product.

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

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

Keep by-pass line on or near the bottom of the tank to minimize foaming.

### **7.4 Mixing Spray Solution Concentrations**

All reference throughout this label to concentration of this product in a spray solution is on a percentage-of-volume basis.

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

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Desired Volume of Spray Solution	Amount of [INSERT BRAND NAME] to Achieve Indicated Concentration in Spray Solution (percent by volume)					
	½%	1%	1½%	2%	5%	10%
1 gallon	2/3 fl oz	1-1/3 fl oz	2 fl oz	2-2/3 fl oz	6½ fl oz	13 fl oz
25 gallons	16 fl oz	1 qt	1½ qts	2 qts	5 qts	10 qts
100 gallons	2 qts	1 gal	1½ gals	2 gals	5 gals	10 gals

2 tablespoons = 1 fluid ounce (fl oz)

For filling backpack and pump-up sprayers, consider mixing the appropriate amount of this product with water in a larger container and then filling the sprayer from the larger container.

### 7.5 Surfactants

Although not always required, nonionic surfactants that are labeled for use with herbicides may be added to spray solutions of this product. Do not reduce application rates or concentration of this product when applying in spray solutions containing additional surfactant.

Read and follow the directions for use and observe all precautionary statements and other information on the surfactant label.

### 7.6 Ammonium Sulfate

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

When using ammonium sulfate, apply this product at rates or spray solution concentrations as directed on this label; lowering the application rate or concentration could result in reduced weed control.

### 7.7 Colorants and Dyes

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

### 7.8 Drift Reduction Additives

Drift reduction additives may be used with all application equipment types, except wiper applicators, sponge bars and controlled droplet applicators (CDA). When a drift reduction additive is used, read and follow all directions for use, precautions, limitations and all other information on the product label. The use of drift reduction additives can affect spray coverage, which could result in reduced performance of this product.

## 8.0 APPLICATION EQUIPMENT AND TECHNIQUES

This product may be applied with the following equipment:

**Aerial Application Equipment**—fixed-wing and helicopter [*Alternative text: helicopter only*] [*Optional text: (Aerial application allowed by helicopter only in) [list states where aerial application is allowed by helicopter only, if applicable]*]

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

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

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

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

**Selective Application Equipment**—recirculating sprayer, shielded and hooded sprayers, wiper applicator, sponge bar, single or hollow stem injectors, tree injector, spray bottle

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

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

APPLY THIS PRODUCT USING PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF ACCURATELY DELIVERING DESIRED VOLUMES.

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

### 8.1 Spray Drift Management

AVOID CONTACT OF THIS HERBICIDE WITH FOLIAGE, [*Optional text:* GREEN] STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, AS SEVERE PLANT INJURY OR DESTRUCTION COULD RESULT.

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

AVOID DRIFT. USE EXTREME CARE TO PREVENT INJURY TO DESIRABLE PLANTS WHEN APPLYING THIS PRODUCT.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making decisions regarding the application of this product.

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

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

AVOID APPLYING THIS PRODUCT AT EXCESSIVE SPEED OR SPRAYER PRESSURE.

### 8.2 Aerial Application Equipment

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

DO NOT APPLY THIS PRODUCT USING AERIAL APPLICATION EQUIPMENT EXCEPT UNDER CONDITIONS SPECIFIED ON THIS LABEL.

[*Optional voluntary label restriction:* Aerial application of this product may be made using helicopters only.]

[*Optional voluntary label restriction:* Aerial application of this product may be made using helicopters only in] [*List states where aerial application is permitted by helicopter only, if applicable*].

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

Apply this product at a rate specified on this label in 3 to 25 gallons of water per acre when using aerial application equipment, unless otherwise directed. Use a larger spray volume within this range where weeds, brush, trees and vines are dense or form multiple canopy layers.

Avoid direct application to any body of water.

Drift control additives may be used.

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

### **Aircraft Maintenance**

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

### **AERIAL SPRAY DRIFT MANAGEMENT**

The following drift management requirements must be followed to minimize off-target drift movement during aerial application. [*Optional label text, if appropriate:* These requirements do not apply to forestry applications.]

1. The distance of the outermost nozzles on the boom must not exceed  $\frac{3}{4}$  the length of the [*Optional text, if application using fixed-wing aircraft allowed:* wingspan or] rotor.
2. Nozzles must always point backward, parallel with the air stream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they must be followed.

### **Importance of Droplet Size**

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

### **Controlling Droplet Size**

- **Volume:** Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure:** Operate the sprayer at a pressure towards the lower end of the range listed for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing the pressure.
- **Number of nozzles:** Use the minimum number of nozzles that provides uniform coverage.
- **Nozzle orientation:** Orienting nozzles so that the spray is released backwards, parallel to the air stream, will produce larger droplets than other orientations. Significant deflection from the horizontal will reduce droplet size and increase drift potential.

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

- **Nozzle type:** Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce larger droplets than other nozzle types.
- **Boom length:** For some use patterns, reducing the effective boom length to less than  $\frac{3}{4}$  of the [Optional text, if application using fixed-wing aircraft allowed: wingspan or] rotor length can further reduce drift without reducing swath width.
- **Application height:** Application must be made at a height of 10 feet or less above the top of the largest plants unless a greater height is required for aircraft safety. Making the application at the lowest height that is safe reduces the exposure of the droplets to evaporation and wind.

### Swath Adjustment

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

### Wind

Drift potential is lowest at wind speeds of between 2 and 10 miles per hour. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. Avoid application when wind speeds are below 2 miles per hour due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Applicators must be familiar with local wind patterns and how they can affect drift.

### Temperature and Humidity

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

### Temperature Inversions

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

### Sensitive Areas

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

### State Specific Limitations on Aerial Application

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#### LIMITATIONS ON AERIAL APPLICATION IN CALIFORNIA ONLY

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[Optional voluntary restriction: Aerial application of this product in California may be made by helicopter only.]

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

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

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

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

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

When tank-mixing this product with 2,4-D, only 2,4-D amine formulations may be applied in California using aerial application equipment. Tank mixtures of this product with 2,4-D amine formulations may be applied by air in California on fallow fields only.

Do not apply this product using aerial application equipment in California when tank-mixed with dicamba.

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### ADDITIONAL LIMITATIONS ON AERIAL APPLICATION IN FRESNO COUNTY, CALIFORNIA ONLY

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Always read and follow the label directions and precautionary statements for all products used in the aerial application.

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

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

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

#### **Written Directions**

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

#### **Aerial Applicator Training and Equipment**

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

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

**Applications 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.

For additional information on the proper aerial application of this product in Fresno County, call (800) 332-3111 [Or insert alternative telephone number, as appropriate].

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### 8.3 Ground Application Equipment

Apply this product at an appropriate rate specified on this label in 3 to 40 gallons [*Alternative volume*: 10 to 60 gallons] of water per acre when making a broadcast application using ground application equipment, unless otherwise directed. As the weed density increases, increase the spray volume towards the upper end of this range to ensure complete coverage. Use nozzles that will avoid generating a fine mist. For best performance of this product when using ground application equipment, use flat-fan nozzles. Check spray pattern for uniform distribution of spray droplets.

### 8.4 Handheld Sprayers

When using a handheld sprayer, apply spray solutions of this product uniformly and completely to foliage of target weeds using a coarse spray droplet spectrum and a spray-to-wet technique; do not spray to the point of runoff. For the appropriate concentration of this product in the spray solution and timing of application to control specific weeds, woody brush, trees and vines, refer to the “WEEDS CONTROLLED” section of this label.

For control of annual weeds, make application when weeds are small and prior to seedhead or bud formation. For control of perennial weeds, woody brush, trees and vines, make application after flowering and before fall color and leaf drop.

When making a low-volume directed spray application to annual and perennial weeds, woody brush, trees and vines using a handheld sprayer, ensure that at least 50 to 75 percent of the foliage or the top one-half of each unwanted plant is sprayed. If a straight stream nozzle is used, start the application at the top of the targeted plant and spray from top to bottom in a lateral zig-zag motion. To ensure uniform and complete coverage, spray both sides of large or tall woody brush, trees and vines, or when foliage is thick and dense, or where there are multiple sprouts. For best performance of this product on woody brush, trees and vines, apply to actively growing vegetation after full leaf expansion and flowering, prior to fall color and leaf drop.

The following table summarizes various methods of foliar application using a backpack sprayer with a spray-to-wet or low-volume directed spray technique and high-volume sprayer application using handheld application equipment for control or partial control of herbaceous weeds, woody brush, trees and vines listed in the “WEEDS CONTROLLED” section of this label.

Method of Application	Spray Solution Concentration	Spray Volume
Handgun or Backpack Sprayer	0.75 to 2% by volume	Spray-to-wet technique

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

Low-Volume Directed Spray (Backpack)	5 to 10% by volume	15 to 25 gallons/acre
Modified High-Volume Spray	3 to 5% by volume	40 to 60 gallons/acre

Low-volume directed spray application with a backpack sprayer works best when applying to weeds and brush less than 10 feet tall. For taller weeds and brush, a high-volume handgun can be modified by reducing the nozzle size and spray pressure to produce a modified high-volume directed spray application.

### 8.5 Selective Application Equipment

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

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

This product may be diluted with water and applied using a recirculating sprayer, shielded sprayer, hooded sprayer, wiper applicator or sponge bar to weeds listed on this label growing on any terrestrial non-food or non-feed crop site described on this label, where feasible. This product may also be used with sprayers equipped with optical weed sensor technology. Other selective equipment that may be used to deliver or apply this product are single and hollow stem injectors, tree injectors, wiper applicators for cut stem and cut stump applications, and spray or squirt bottles for cut stem, cut stump and frill applications to control large stem weeds, brush, trees and vines listed on this label.

#### Recirculating Sprayer

A recirculating sprayer directs the spray solution onto weeds growing above desirable vegetation, while spray solution that is not intercepted by weeds is collected and returned to the spray tank for reapplication. A recirculating sprayer may be used to apply spray solutions of this product to weeds listed on this label on any terrestrial non-crop site described on this label.

#### Shielded and Hooded Sprayers

A shielded sprayer directs the herbicide solution onto targeted weeds while using an impervious material, or shield, to protect desirable vegetation from coming into contact with the herbicide spray. To provide maximum protection for desirable vegetation, keep shields properly adjusted and use nozzles that provide uniform coverage within the application area.

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 desirable vegetation from the spray solution.

This product may be diluted with water and applied using a shielded or hooded sprayer to control weeds listed on this label growing on any terrestrial non-food and non-feed crop site described on this label, where feasible.

Properly adjust the hood to protect desirable vegetation. Ensure that the hood is capable of completely enclosing the spray pattern.

A hooded sprayer must be configured and operated in a manner that minimizes bouncing and avoids raising the hood up off the ground surface at any time. If the hood is raised, spray particles can escape and come into contact with desirable vegetation, causing damage to or destruction of the desirable vegetation. Avoid operating this equipment on rough or sloping terrain where the spray hood is likely to rise up off the ground surface.



## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

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

The following procedures will help reduce the potential for injury to desirable vegetation when using a hooded sprayer:

- Operate the sprayer with the hood on the ground or skimming across the ground surface.
- Operate at a ground speed no greater than 5 miles per hour to minimize bouncing of the hooded sprayer.
- Apply when wind speed is 10 miles per hour or less.
- Use low-drift nozzles that provide uniform coverage within the application area.

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

### **Wiper Applicator**

A wiper applicator is a device that physically wipes this product or solutions of this product directly onto the unwanted vegetation or cut stump. Any handheld device that is capable of physically wiping this product or solutions of this product directly onto the target weed or stump, such as a paint brush, may be used.

A mechanical wiper applicator, such as a rope wick or sponge bar that can be driven through a field over the top of desirable vegetation to control tall weeds growing above the desired vegetation, must be designed, maintained and operated to prevent the herbicide solution from coming into contact with desirable vegetation. Droplets, mist, foam, or splatter of the herbicide solution settling onto desirable vegetation can result in discoloration, stunting, or destruction. Avoid leakage or dripping onto desirable vegetation. To protect the desirable vegetation, adjust the height of the applicator to ensure that the wiper contact point is at least 2 inches above the desired vegetation.

Weeds that do not come into contact with the herbicide solution will not be affected. The more weed foliage exposed above the desirable vegetation the better mechanical wiper applicators work. Better results can be obtained when weeds are a minimum of 6 inches above the desired vegetation. Poor contact can also occur when weeds are growing in dense clumps, when operating in areas of severe weed infestation, or when weed height varies dramatically. In these situations, more than one application of this product might be necessary to achieve desired weed control.

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

Keep wiper surfaces clean.

Be aware that on sloping ground the herbicide solution can migrate to one side, causing dripping on the lower end and drying of the wiper surface at the upper end of the applicator.

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

**For Rope Wick and Sponge Bar Applicators** – apply solutions ranging from 33 to 75 percent of this product by volume in water.

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

**For Panel Applicators** – apply solutions ranging from 33 to 100 percent (undiluted) of this product by volume in water.

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

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

### **Single and Hollow Stem Injectors**

Control of certain weeds listed in the “WEEDS CONTROLLED” section can be obtained by injecting this concentrated product or solutions of this product directly into or onto the target weed. Ensure that the handheld injector being used for this application is capable of accurately delivering the volume specified on the label. When making stem injections, the combined total use of this product must not exceed 10.6 quarts per acre per year. At 6 milliliters of concentrated (undiluted) product per stem, 10.6 quarts will treat approximately 1670 stems per acre per year. The number of stems that can be treated per acre will vary depending on the injection volume and concentration of this product in the application solution.

### **8.6 Injection Systems**

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

### **8.7 Controlled Droplet Applicator (CDA)**

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

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

## **9.0 TERRESTRIAL USE SITES**

This product may be used according to the directions described on this label to control annual and perennial weeds, woody brush, trees and vines listed on this label on any terrestrial site described on this label.

This product may be used to control weeds, woody brush, trees and vines on maintained landscapes, on improved and unimproved land, on lawns and turf and around ornamentals on industrial, commercial and residential sites, including [*Select all uses that are applicable to the final printed labeling:* airports, apartment complexes, ditch banks, driveways, dry ditches, dry canals, fencerows, forestry sites, golf courses, greenhouses, lumber yards, manufacturing sites, municipal sites, natural areas, nurseries, office complexes, ornamental beds, parks, parking areas, petroleum tank farms, pumping installations, railroads, recreational areas, residential areas, roadsides, schools, shadehouses, sports complexes, storage areas, substations, utility sites and rights-of-way, and warehouse areas.]

This product may be used for non-selective control of unwanted vegetation on any site described on this label for trim-and-edge application around objects, including around building foundations, equipment storage areas and trees, along and in fences, and to eliminate unwanted vegetation growing in and around established shrub beds and ornamental plantings. This product may also be used for complete elimination of vegetation from a terrestrial site prior to planting ornamentals, flowers, or turfgrass (sod or seed), and prior to land development, including prior to beginning construction projects or the laying of asphalt or other road material. Application of this product may be repeated, as needed, to maintain bare ground, up to a total application of 10.6 quarts per acre per year.

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

This product may be used for establishment and maintenance of fuel breaks, for establishing fire perimeters and black lines, along fire roads and to facilitate prescribed burning practices on any site described on this label.

[*Optional label text:* This product may also be used for weed control or growth regulation on [*Optional list of any uses that are included on this Master Label, including, but not limited to:* Christmas tree farms, and production nurseries].]

Unless otherwise directed, application of this product may be made according to the directions for use in the sections that follow on any of these sites using any method of application described on this label to control any weeds, woody brush, trees and vines listed in the "WEEDS CONTROLLED" section of this label.

### 10.0 ADDITIONAL SITE MANAGEMENT INFORMATION

The following sections contain additional use information specifically related to certain use sites. Unless otherwise directed, any application of this product described in the "WEEDS CONTROLLED" section or any other section of this label may be made on the use sites described in the sections that follow, where applicable, using any method of application described on this label that is appropriate.

#### 10.1 Commercial, Residential and Recreational Area Management

All applications of this product described on this label may be used in commercial, residential and recreational areas, including parks, schools and athletic fields, using any method of application described on this label, including spot treatment of unwanted vegetation, trim-and-edge application around trees, fences, walking paths, buildings, sidewalks, nature trails and other objects in these areas, to eliminate unwanted weeds growing in established shrub and ornamental beds, for turf management and renovation, and to eliminate vegetation from a site prior to development, including prior to planting an area to ornamentals, flowers or turfgrass (sod or seed), or beginning construction projects.

#### 10.2 Forestry, Hardwood and Christmas Tree Management

This product may be used for control or partial control of woody brush, trees and herbaceous weeds on any tree site, including forestry settings, Christmas tree plantations, and silvicultural and production nursery sites, using any method of application described on this label. See the "WEEDS CONTROLLED" section of this label for application rates and additional use directions on specific weeds, if any.

##### **Weed Management, Site Preparation**

This product may be used to control or partially control undesirable woody brush, trees, vines and herbaceous weeds listed on this label for preparing sites prior to planting any tree species, including Christmas trees, eucalyptus trees and hybrid tree cultivars, and for controlling weeds around established trees, [*Optional text:* for the release of conifer and hardwood trees,] establishing wildlife openings and maintaining roads on any tree site.

**TANK MIXTURES:** This product may be applied in a tank-mix with the products listed in this section to broaden the spectrum of vegetation controlled. Any application rate of this product listed on this label may be used in a tank-mix with the following products for tree site management, including site preparation, provided that the product is labeled for the use on the site of application and prior to planting the desired species. Refer to the individual label of all products used in the tank mixture for approved uses and application rates. Read and follow the directions for use and precautions for each product used, including planting interval restrictions, if any. It is the responsibility of the pesticide user to ensure that the intended use is included on the label of all products added to a tank mixture. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

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*[Active ingredients and products to be added to the final printed labeling for tank-mixing may be selected from the following list:*

imazapyr; metsulfuron methyl; sulfometuron methyl; triclopyr

Arsenal; Arsenal Herbicide Applicators Concentrate; Chopper; Chopper Gen2; Escort XP; Forestry Garlon 4 Specialty; Forestry Garlon XRT Specialty; Garlon 3A Specialty; Garlon 4 Specialty; Garlon 4 Ultra Specialty; Landmark; Landmark XP; Oust Extra; Oust XP]

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For control or partial control of dense stands of vegetation or for hard-to-control woody brush, trees and vines, apply these products at a rate or spray solution concentration towards the higher end of the given range.

### **Conifer Release, Mid-Rotation Conifer Release, Hardwood Release, Timber Stand Improvement**

This product may be applied as a directed spray using a handheld sprayer or any selective application equipment described on this label to control woody and herbaceous weeds and other undesirable understory vegetation below the tree crop canopy in conifer plantations, hardwood sites, Christmas tree plantations and silvicultural and ornamental nurseries to facilitate the release and growth of conifer and hardwood trees.

This product may also be applied using ground broadcast equipment or as a directed spray application for mid-rotation release under the canopy of pines, other conifers and hardwoods.

PRECAUTIONS: Avoid contact of spray drift, mist or drips with foliage, green bark or non-woody surface roots of desirable plant species. Use application techniques that prevent or minimize contact of this product with foliage of desired trees or other plants through direct contact or off-target spray movement

*[Optional label text: RESTRICTIONS: Do not apply this product as an over-the-top broadcast application for conifer or hardwood release, unless otherwise directed.]*

### **Conifer Release – Broadcast Application**

This product may be broadly applied over the top of conifer tree species listed in this section after formation of final conifer resting buds in the fall or prior to initial bud swelling in the spring for control, partial control or suppression of herbaceous weeds and hardwoods listed in the “WEEDS CONTROLLED” section of this label to facilitate the release of these desirable tree species in a forestry, plantation or nursery setting. Unless otherwise directed, make this application only where conifers have been established for a minimum of one growing season.

PRECAUTIONS: Conifer injury can occur if this product is applied over the top of conifers at rates higher than prescribed on this label, where spray applications overlap, if application is made when conifers are actively growing, or when they are growing under stress from drought, flood, improper planting or insect, animal or disease damage.

### Conifer Release Outside the Southeastern United States

For release of the following conifer species growing for a minimum of one growing season in most areas outside the southeastern United States, apply 32 to 64 fluid ounces of this product per acre as a broadcast application over the top of the conifer trees.

- Douglas fir
- Fir species
- Hemlock
- Pines\*
- California redwood
- Spruce

\* *Includes all species except loblolly pine, longleaf pine, shortleaf pine or slash pine.*

Apply 32 to 54 fluid ounces of this product for release of Douglas fir, pine and spruce that have been established for only one growing season (except in California).

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

For release of spruce (*Picea* spp.) in Maine, Michigan, Minnesota, New Hampshire and Wisconsin, up to 3 quarts of this product may be applied after formation of final resting buds in the fall for control of woody brush and tree species.

PRECAUTIONS: Ensure that the conifers are well hardened off before application of this product. [Optional text, if adding surfactant to spray solutions of this product is allowed: The addition of nonionic surfactants to spray solutions of this product when making an over-the-top conifer release application could cause conifer injury.]

### Conifer Release in the Southeastern United States

For release of the following conifer species established for more than one growing season in the southeastern United States, apply 48 fluid ounces to 2.5 quarts of this product per acre in the fall as a broadcast application over the top of the trees. For release of these species after only one growing season, apply only 32 fluid ounces of this product per acre.

- Eastern white pine
- Loblolly pine
- Longleaf pine
- Shortleaf pine
- Slash pine
- Virginia pine

TANK MIXTURES: This product may be applied for conifer release in a tank-mix with the following products to provide a broader spectrum of postemergence weed control and for residual control of weeds listed on the label of those products. Only apply these tank mixtures over the top of conifer species that are approved for this use for all products in the mix. Refer to the individual product labels for approved uses and application rates. Read and follow all directions for use and precautions for each product used. It is the responsibility of the pesticide user to ensure that the intended use is included on the label of all products added to a tank mixture. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

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*[Active ingredients and products to be added to the final printed labeling for tank-mixing may be selected from the following list:*

atrazine; imazapyr; metsulfuron methyl; sulfometuron methyl

Arsenal; Arsenal Herbicide Applicators Concentrate; Oust Extra; Oust XP]

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For release of Douglas fir established for a minimum of one growing season prior to bud swell in early-spring, apply 32 fluid ounces of this product per acre in a tank-mix with an appropriate rate of atrazine.

For herbaceous release of loblolly pine, Virginia pine and longleaf pine in the spring and early-summer, apply 16 to 24 fluid ounces of this product per acre in a tank-mix with an appropriate rate of Oust Extra or Oust XP.

### Late-Summer and Fall after Resting Bud Formation

For release of jack pine, white pine and white spruce, apply 32 to 64 fluid ounces of this product per acre in a tank-mix with an appropriate rate of Oust Extra or Oust XP that will not harm these conifer species.

For release of Douglas fir, apply 32 to 48 fluid ounces of this product per acre in a tank-mix with an appropriate rate of Arsenal or Arsenal Herbicide Applicators Concentrate.

For release of balsam fir and red spruce, apply 64 fluid ounces of this product per acre in a tank-mix with an appropriate rate of Arsenal or Arsenal Herbicide Applicators Concentrate.

### **10.3 Ornamental and Production Nursery Management**

All uses of this product described on this label may be used in a plant nursery setting using any method of application described.

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

This product may be used to clear an area of unwanted vegetation prior to planting any ornamental, plant, tree, shrub or other plants.

This product may also be used to control weeds growing around established woody ornamental species, such as arborvitae, azalea, boxwood, crabapple, eucalyptus, euonymus, fir, Douglas fir, jojoba, hollies, lilac, magnolia, maple, oak, poplar, privet, pine, spruce and yew, and to trim and edge around potted plants and other objects in a plant nursery.

**PRECAUTIONS:** Protect desirable plants from the spray solution using shields or coverings made of a waterproof material. Take care to avoid contact of spray, drift or mist with foliage, green stems or immature bark of established ornamental species.

### **Greenhouse/Shadehouse**

This product may be used to control weeds growing in and around greenhouses and shadehouses.

**RESTRICTIONS:** Desirable vegetation must not be present during application in a greenhouse. Turn air circulation fans off before applying this product inside a greenhouse or shadehouse and leave them off until the application solution has dried.

### **10.4 Railroad Management**

All uses of this product described in the "WEEDS CONTROLLED" or any other section of this label may be used on railroad sites using any method of application described.

Application of this product along railroad rights-of-way may be made in up to 80 gallons of spray solution per acre.

### **Bare Ground, Ballast and Shoulders, Crossings, Spot Treatment**

This product may be used to maintain bare ground on railroad ballast and shoulders, and reduce the need for mowing and mechanical brush removal along railroad rights-of-way. Application of this product may be repeated as weeds continue to emerge in order to maintain bare ground, up to a maximum total application rate of 10.6 quarts of this product per acre per year.

**TANK MIXTURES:** This product may be applied in a tank mixture with the following products to broaden the spectrum of control of woody brush, trees and vines for bare ground, ballast and shoulder, crossing and spot treatment applications, and other brush, tree and vine control on railroad sites, provided that the product used is labeled for the application being made. Refer to the individual labeling of all products used in the tank mixture for approved uses and application rates. It is the responsibility of the pesticide user to ensure that the intended use is included on the label of all products added to a tank mixture. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

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*[Active ingredients and products to be added to the final printed labeling for tank-mixing may be selected from the following list:*

2,4-D; atrazine; bromacil; chlorsulfuron; clopyralid; dicamba; diquat; diuron; hexazinone; imazapyr; metsulfuron methyl; pelargonic acid; simazine; sulfometuron methyl; sulfosulfuron; tebuthiuron; triclopyr

Arsenal; Arsenal Herbicide Applicators Concentrate; Chopper; Chopper Gen2; Escort XP; Forestry Garlon 4 Specialty; Forestry Garlon XRT Specialty; Garlon 3A Specialty; Garlon 4 Specialty; Garlon 4 Ultra Specialty; Habitat; Hyvar X; Hyvar X-L; Krovar DF; Oust Extra; Oust XP; Outrider; Princep 4L; Princep Caliber 90; Princep Liquid; Sahara DG; Scythe; Stalker; Spike 20P Specialty; Spike 80DF Specialty; Telar XP; Transline Specialty; Velpar DF CU; Velpar DF VU; Velpar L; Velpar L CU; Velpar L VU; Vastlan Specialty]

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## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

### Brush, Tree and Vine Control

This product may be used to control woody brush, trees and vines along railroad rights-of-way. Apply 4 to 10 quarts of this product in up to 80 gallons of spray solution per acre as a broadcast application using either a boom or boomless sprayer. Apply a 0.75 to 2-percent solution of this product when using high-volume application equipment with a spray-to-wet technique, or a 5 to 10-percent solution when using a low-volume directed spray for spot treatment.

**TANK MIXTURES:** This product may be applied in a tank-mix with one or more of the following products to broaden the spectrum of control of woody brush, trees and vines along railroad rights-of-way, provided that the product is labeled for use on these sites. Refer to the individual product labels for approved uses and application rates. It is the responsibility of the pesticide user to ensure that the intended use is included on the label of all products added to a tank mixture. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

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*[Active ingredients and products to be added to the final printed labeling for tank-mixing may be selected from the following list:*

chlorsulfuron; clopyralid; dicamba; fosamine; hexazinone; imazapyr; metsulfuron methyl; picloram; triclopyr

Arsenal; Arsenal Herbicide Applicator's Concentrate; Chopper; Chopper Gen2; Escort XP; Forestry Garlon 4 Specialty; Forestry Garlon XRT Specialty; Garlon 3A Specialty; Garlon 4 Specialty; Garlon 4 Ultra Specialty; Habitat; Krenite S Brush Control Agent; Stalker; Telar XP; Tordon 101 Mixture Specialty; Tordon 22K Specialty; Tordon K Herbicide Specialty; Transline Specialty; Vanquish; Velpar DF CU; Velpar DF VU; Velpar L; Velpar L CU; Velpar L VU; Vastlan Specialty]

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### Weed Control in Dormant and Actively Growing Bermudagrass

This product may be used to control or partially control many annual and perennial weeds in dormant and actively growing bermudagrass along railroad rights-of-way. See the "WEEDS CONTROLLED" section of this label for directions for use of this product for weed control in grasses.

#### 10.5 Roadside Management

All uses of this product described on this label may be used for weed management along roadways, including weed control in dormant and active bermudagrass and bahiagrass, weed control along shoulders and under and around guardrails, signposts and other objects along the road, using any method of application described on this label.

**TANK MIXTURES:** This product may be tank-mixed with the following products for shoulder, guardrail, spot treatment and maintaining bare ground applications, provided that the product used is labeled for use on these sites. Refer to the individual product labels for approved uses and application rates. It is the responsibility of the pesticide user to ensure that the intended use is included on the label of all products added to a tank mixture. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

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*[Active ingredients and products to be added to the final printed labeling for tank-mixing may be selected from the following list:*

2,4-D; atrazine; bromacil; chlorsulfuron; clopyralid; dicamba; diuron; fosamine; hexazinone; imazapic; imazapyr; metsulfuron methyl; oryzalin; oxadiazon; pendimethalin; picloram; prodiamine; simazine; sulfometuron; sulfosulfuron; triclopyr

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

AAtrex 4L; AAtrex Nine-O; Banvel; Barricade 65WG; Chopper; Chopper Gen2; Crossbow; Direx 4L; Escort XP; Endurance; Formula 40; Gallery 75 Dry Flowable Specialty; Gallery SC; Garlon 4; Garlon XRT; Hyvar X; Karmex DF; Krenite S Brush Control Agent; Krovar I DF; Landmark; Landmark XP; Oust Extra; Oust XP; Outrider; Pendulum 3.3 EC; Pendulum AquaCap; Pendimax 3.3; Plateau; Poast; Poast Plus; Princep 4L; Ronstar 50 WSP; Ronstar Flo; Ronstar G; Sahara DG; Surflan AS Specialty; Surflan Flex; Surflan Flex T&O; Surflan Pro; Surflan XL 2G; Telar XP; Tordon K; Vanquish; Vastlan Specialty; Velpar DF CU; Velpar DF VU; Velpar L CU; Velpar L; Velpar L VU; Weedar 64]

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### 10.6 Utility Management

This product may be used along electrical power, pipeline and telephone rights-of-way, and on all sites associated with these utility rights-of-way, including substations, access roads and rail lines, and along similar rights-of-way that run in conjunction with utilities, for spot treatment of unwanted vegetation, side-trimming, trim-and-edge application around objects, weed control prior to planting a utility site to ornamentals, flowers, or turfgrass (sod or seed), turf management, to eliminate unwanted weeds growing in established shrub or ornamental beds, to prepare or establish wildlife openings and for eliminating vegetation prior to beginning construction projects. Application of this product may be repeated as needed to maintain bare ground as weeds continue to emerge, up to a maximum application rate of 10.6 quarts per acre per year.

**TANK MIXTURES:** This product may be tank-mixed with the following products for use on utility sites, provided that the product used is labeled for use on these sites. Refer to the individual product labels for approved sites and application rates. It is the responsibility of the pesticide user to ensure that the intended use is included on the label of all products added to a tank mixture. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

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*[Active ingredients and products to be added to the final printed labeling for tank-mixing may be selected from the following list:*

2,4-D; atrazine; bromacil; chloresulfuron; clopyralid; dicamba; diuron; fosamine; hexazinone; imazapic; imazapyr; metsulfuron methyl; oryzalin; pendimethalin; prodiamine; simazine; sulfometuron methyl; sulfosulfuron; triclopyr

AAtrex 4L; AAtrex Nine-O; Arsenal Herbicide Applicators Concentrate; Endurance; Escort XP; Forestry Garlon 4 Specialty; Forestry Garlon XLT Specialty; Garlon 3A Specialty; Garlon 4 Specialty; Garlon 4 Ultra Specialty; Hyvar XL; Krenite S Brush Control Agent; Krovar I DF; Oust Extra; Oust XP; Outrider; Plateau; Sahara DG; Surflan AS Agricultural; Surflan AS Specialty; Surflan Flex; Surflan Flex T&O; Surflan XL 2G; Telar XP; Transline Specialty; Vanquish; Velpar DF CU; Velpar DF VU; Velpar L; Velpar L CU; Velpar L VU; Vastlan Specialty; Weedar 64]

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Ensure that the Garlon product is thoroughly mixed with water according to label directions before adding this product to the spray mixture. Maintain continuous agitation when adding this product in order to avoid tank-mix incompatibility problems.

To broaden the spectrum of weed control when side-trimming, apply this product in a tank-mix with one of the Garlon products listed above.

### 11.0 WEEDS CONTROLLED

Read the entire label before proceeding to use this product.

Apply this product at an application rate or spray solution concentration towards the upper end of a given range when weed growth is heavy or dense, or when weeds are growing in an undisturbed (non-cultivated) area.



## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

Poor weed control could be realized if application is made to weeds covered with dust. For weeds that have been mowed, grazed or cut, allow re-growth to occur prior to application of this product.

Refer to the sections that follow for application rates and timing of application for the control of annual and perennial weeds, woody brush, trees and vines.

### 11.1 Weed Control, Renovation and Chemical Mowing in Turf

The use of this product as described in this section may be applied to turfgrass growing on any terrestrial site described on this label. Ensure that any tank-mix product applied with this product is labeled for the intended use and on the site of application.

#### Weed Control in Dormant Bermudagrass and Bahiagrass

This product may be used to control or suppress many winter annual weeds and tall fescue for effective release of dormant bermudagrass and bahiagrass prior to spring green-up in areas where these turfgrasses are desirable ground covers and some temporary injury or discoloration can be tolerated.

Apply 8 to 64 fluid ounces of this product in 10 to 40 gallons of water per acre when bermudagrass and bahiagrass are dormant and prior to spring green-up.

Application of more than 16 fluid ounces of this product per acre on highly maintained bermudagrass and bahiagrass turf, such as golf courses and lawns, could result in injury or delayed green-up in the spring.

For residual weed control in dormant bermudagrass and bahiagrass, this product may be tank-mixed with Outrider, Oust Extra or Oust XP herbicides. Apply 8 to 64 fluid ounces of this product in a tank-mix with an appropriate rate of Outrider, Oust Extra or Oust XP herbicide in 10 to 40 gallons of water per acre. To avoid delays in green-up and minimize injury, apply no more than 1 ounce of Oust Extra or Oust XP herbicide per acre on bermudagrass and no more than 0.5 ounce on bahiagrass, and avoid application when these grasses are in only a semi-dormant condition.

DO NOT apply this product in a tank-mix with Outrider, Oust Extra or Oust XP herbicides on highly maintained bermudagrass and bahiagrass turf, such as on golf courses and lawns.

#### Weed Control in Actively Growing Bermudagrass

This product may be used to control or partially control many annual and perennial weeds in actively growing bermudagrass. Some bermudagrass injury could result from the application of this product, but the bermudagrass will recover under moist conditions once the effects of the product wear off. Use only on well-established bermudagrass where some temporary injury or discoloration can be tolerated.

Apply 16 to 48 fluid ounces of this product in 10 to 40 gallons of spray solution per acre. Use a lower application rate within this range when controlling annual weeds less than 4 inches tall (or runner length) and increase the rate towards the upper end of the range as weeds increase in size or as they approach flower or seedhead formation. At these application rates, this product will provide partial control of the following perennial weeds in actively growing bermudagrass:

- Bahiagrass
- Fescue, tall
- Trumpetcreeper
- Bluestem, silver
- Johnsongrass
- Vaseygrass

**PRECAUTIONS:** Applying more than 16 fluid ounces of this product per acre on highly maintained bermudagrass, such as on golf courses and lawns, could cause unacceptable turf injury and discoloration.

For a broader weed control spectrum in actively growing bermudagrass, this product may be tank-mixed with Outrider, Oust Extra or Oust XP herbicides. Apply these tank-mixtures only on well-established bermudagrass where some temporary injury or discoloration can be tolerated. Make no more than one application of this product in these tank mixtures in the same season, otherwise the bermudagrass could be severely injured.

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

Apply 8 to 32 fluid ounces of this product per acre in a tank-mix with Outrider herbicide for control or partial control of johnsongrass and other weeds listed on the Outrider herbicide label. Apply both products at a rate toward the higher end of the given ranges to control annual or perennial weeds greater than 6 inches tall.

Apply 18 to 32 fluid ounces of this product per acre in a tank-mix with Oust Extra or Oust XP herbicide to broaden the spectrum of weed control to include weeds listed on those labels. This tank-mix will provide partial control of the following perennial weeds in actively growing bermudagrass:

- Bahiagrass
- Dallisgrass
- Fescue, tall
- Trumpetcreeper
- Bluestem, silver
- Dock, curly
- Johnsongrass
- Vaseygrass
- Broomsedge
- Dogfennel
- Poorjoe
- Vervain, blue

**PRECAUTIONS:** Apply these tank mixtures only on well-established bermudagrass where some temporary injury or discoloration can be tolerated.

**RESTRICTIONS:** DO NOT apply this product in a tank mixture with Outrider or Oust herbicides on highly maintained bermudagrass, such as on golf courses and lawns.

### **Weed Control in Actively Growing Bahiagrass**

For suppression of vegetative growth and seedhead inhibition of bahiagrass for approximately 45 days, apply 6 fluid ounces of this product in 10 to 40 gallons of water per acre 1 to 2 weeks after full green-up or after mowing to a uniform height of 3 to 4 inches prior to seedhead emergence.

For growth suppression of bahiagrass for up to 120 days, apply 4 fluid ounces of this product per acre, followed by an application of 2 to 4 fluid ounces per acre about 45 days later. Make no more than two growth suppression applications per year.

For broad spectrum weed control in actively growing bahiagrass, this product may be tank-mixed with Outrider, Oust Extra or Oust XP herbicides.

Apply 6.25 fluid ounces of this product per acre in a tank-mix with an appropriate rate of Outrider herbicide to control annual and perennial weeds greater than 4 inches in height.

Apply 6 fluid ounces of this product per acre in a tank-mix with an appropriate rate of Oust Extra or Oust XP herbicide 1 to 2 weeks following an initial spring mowing to broaden the spectrum of weed control in actively growing bahiagrass to include weeds listed on the Oust herbicide label. Make this application only once per year.

**PRECAUTIONS:** Apply these tank mixtures only on well-established bahiagrass where some temporary injury or discoloration can be tolerated.

### **Turf Renovation**

This product controls most existing vegetation prior to renovating turfgrass areas or establishing turfgrass grown for seed or sod. For maximum control of existing vegetation, delay planting or sodding until after determining if any re-growth of underground plant parts will occur. Where repeat applications are necessary, sufficient re-growth must be attained prior to re-application of this product. Summer or fall application of this product is the optimal timing for control of warm-season grasses, such as bermudagrass. For managed turfgrass, apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the spray solution.

This product has no residual soil activity and will not affect plants, seed or sod planted back into the area after application.

A handheld sprayer may be used for spot treatment of unwanted vegetation growing in existing turfgrass. Broadcast application or spot treatment using a handheld sprayer may be used to control sod remnants or other unwanted vegetation after sod is harvested.

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

For maximum performance of this product do not disturb soil or underground plant parts before application of this product. Delay tillage and renovation techniques, such as vertical mowing, coring or slicing, a minimum of 7 days after application to allow translocation of the herbicide into underground plant parts.

**RESTRICTIONS:** If application rates total 3 quarts of this product per acre or less, no waiting period between application and feeding or livestock grazing is required. If the rate is greater than 3 quarts per acre, remove domestic livestock before application and wait a minimum of 8 weeks after application before grazing or harvesting.

### **Chemical Mowing**

This product may be used to suppress growth of perennial and annual grasses listed in this section to serve as a substitute for mowing.

Annual Grasses – apply 4 to 5 fluid ounces of this product in 10 to 40 gallons of spray solution per acre to suppress growth of some annual grasses, such as annual ryegrass, wild barley and wild oats when actively growing in coarse turf on roadsides or other industrial areas and before seedheads are in the boot stage of development. This application could injure the desired annual grasses.

Perennial Grasses – apply 6 fluid ounces of this product per acre to suppress growth of Kentucky bluegrass, or 8 fluid ounces to suppress tall fescue, fine fescue, orchardgrass, quackgrass or reed canarygrass in 10 to 40 gallons of spray solution per acre after grasses have greened up to at least 75 percent green color in the spring, or 7 to 10 days after mowing when sufficient re-growth has occurred to provide a desirable height for growth regulation.

**PRECAUTIONS:** Use this product for chemical mowing only in areas where some temporary injury or discoloration of annual and perennial grasses can be tolerated.

### **11.2 Annual Weeds**

Annual weeds are easiest to control with this product when they are small and actively growing. New leaf development indicates active growth.

To control or partially control the annual weeds listed in this section when they are less than 6 inches in height or runner length and actively growing, apply 1 quart of this product per acre. If they are over 6 inches in height or runner length, or slowly growing under stressed conditions, increase the application rate to 1.5 to 4 quarts per acre, depending on weed height and the severity of the poor growing conditions.

For application using a handheld sprayer with a spray-to-wet technique, apply a 0.5-percent solution of this product to annual weeds less than 6 inches in height or runner length prior to seedhead formation in grasses or bud formation in broadleaf weeds. To control annual weeds over 6 inches tall, or for even smaller weeds growing under stressed conditions, apply a 1 to 2-percent solution. Apply this product at the maximum concentration within this range for hard-to-control weeds or to control weeds over 24 inches tall.

[*Optional text:* When using a vehicle-mounted controlled droplet applicator [*Alternative text, if already defined above:* CDA], apply the appropriate amount of this product in 2 to 15 gallons of water per acre.]

To maximize performance of this product, do not mow, cut, till, burn or disturb vegetation in the application area for a minimum of 3 days after application.

This product has no residual soil activity and does not control emergence of new annual weeds from seed. Repeated application of this product will be needed to control weeds that continue to emerge.

### **ANNUAL WEED SPECIES**

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## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

Anoda, spurred  
Balsam apple<sup>1</sup>  
Barley  
Barley, little  
Barnyardgrass  
Bassia, fivehook  
Bittercress  
Bluegrass, annual\*  
Bluegrass, bulbous  
Brome, downy  
Brome, Japanese  
Broomsedge  
Buttercup  
Castor bean<sup>2</sup>  
Cheatgrass  
Cheeseweed (*Malva parviflora*)  
Chervil  
Chickweed  
Cocklebur  
Copperleaf, hophornbeam  
Copperleaf, Virginia  
Coreopsis, plains/tickseed  
Corn  
Crabgrass  
Cupgrass, woolly  
Dwarf dandelion  
Eclipta  
False dandelion  
False flax, small-seeded  
Fiddleneck  
Filaree  
Fleabane, annual  
Fleabane, hairy\* (*Conyza bonariensis*)  
Fleabane, rough  
Foxtail  
Foxtail, Carolina  
Geranium, Carolina  
Goatgrass, jointed  
Goosegrass\*  
Groundsel, common  
Henbit  
Horseweed / Marestalk (*Conyza canadensis*)\*  
Itchgrass  
Johnsongrass, seedling\*  
Junglerice\*  
Knotweed  
Kochia\*  
Lambsquarters  
Lettuce, prickly  
Mannagrass, eastern  
Mayweed

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

Medusahead  
Morning glory (*Ipomoea spp*)  
Mustard, blue  
Mustard, tansy  
Mustard, tumble  
Mustard, wild  
Nightshade, black  
Oats  
Panicum, browntop  
Panicum, fall  
Panicum, Texas  
Pennycress, field  
Pepperweed, Virginia  
Pigweed\*  
Puncturevine  
Purslane, common  
Pusley, Florida  
Ragweed, common\*  
Ragweed, giant\*  
Rice, red  
Rocket, London  
Rocket, yellow  
Rye  
Ryegrass\*  
Sandbur, field  
Sesbania, hemp  
Shattercane  
Shepherd's-purse  
Sicklepod  
Signalgrass, broadleaf  
Smartweed, ladysthumb  
Smartweed, Pennsylvania  
Sorghum, grain (milo)  
Sowthistle, annual  
Spanish needles<sup>3</sup>  
Speedwell, corn  
Speedwell, purslane  
Sprangletop  
Spurge, annual  
Spurge, prostrate  
Spurge, spotted  
Spurry, umbrella  
Starthistle, yellow  
Stinkgrass  
Sunflower  
Teaweed / Prickly sida  
Thistle, Russian\*  
Velvetleaf  
Wheat  
Wild oats  
Witchgrass

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II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

- <sup>1</sup> For control of balsam apple, apply this product using handheld equipment only.
- <sup>2</sup> Control of castor bean can also be achieved by injecting 5 milliliters of this concentrated (undiluted) product per plant into the lower portion of the main stem.
- <sup>3</sup> For control of Spanish needles, apply 62 fluid ounces of this product per acre
- \* A glyphosate-resistant biotype has been confirmed. For additional information, refer to the “WEED RESISTANCE MANAGEMENT” section of this label. You can also visit on the Internet, [www.weedscience.org](http://www.weedscience.org) or [www.weedresistancemanagement.com](http://www.weedresistancemanagement.com), or contact your Seamless Control representative.

**11.3 Perennial Weeds**

More effective control of perennial weeds can be obtained when this product is applied to target weeds that are small and actively growing. New leaf development indicates active growth. If application must be made to larger weeds or to weeds that are slowly growing under stressful conditions, apply this product at a rate or spray solution concentration towards the upper end of the specified range.

If weeds have been mowed or tilled, do not apply this product until plants have resumed active growth and have reached the specified stage of growth or sufficient growth has been achieved to allow for good interception of the spray solution. To maximize performance of this product, do not mow, cut, till, burn or disturb vegetation in the application area for a minimum of 7 days after application.

For control of perennial weeds listed on this label using backpack or handheld equipment with a low-volume application technique, apply a 5 to 10-percent solution of this product over the crown of the target plant to cover 50 percent of the upper foliage.

For control of perennial weeds using a handheld controlled droplet applicator (CDA), apply a 20 to 40-percent solution of this product (25 to 51 fluid ounces of this product per gallon of spray solution) at a flow rate of 2 fluid ounces of spray solution per minute and a walking speed of 0.75 mile per hour (2 to 4 quarts of spray solution per acre). When using a vehicle-mounted CDA, apply the required amount of this product, as indicated in the following table, in 2 to 15 gallons of water per acre.

Application of this product in the fall must be made before a killing frost.

This product has no soil activity and does not control emergence of perennial weeds from seed and dormant underground roots, rhizomes or tubers present in the soil at the time of application. Repeated application of this product will be needed for continued control of weeds that emerge after application.

**PERENNIAL WEEDS RATE TABLE**

<b>Perennial Weed Species</b>	<b>Broadcast Rate (quarts/acre)</b>	<b>Handheld Spray-to-Wet Concentration (% solution)</b>
<b>Alfalfa<sup>1</sup></b>	1	2
<b>Alligatorweed<sup>1</sup></b> Apply this product when most of the target plants are in bloom. More than one application will be needed to achieve control.	4	1.5
<b>Anise (fennel)</b>	2 – 4	1 – 2
<b>Artichoke, Jerusalem</b>	3 – 5	2
<b>Bahiagrass</b>	3 – 5	2
<b>Beachgrass, European (<i>Ammophila arenaria</i>)</b> Apply a 5-percent solution of this product using a spray-to-wet technique or a 10-percent solution using	–	5

II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

<b>Perennial Weed Species</b>	<b>Broadcast Rate (quarts/acre)</b>	<b>Handheld Spray-to-Wet Concentration (% solution)</b>
<p>a low-volume application technique. More effective control can be obtained when application is made onto target weeds that are actively growing at the boot through the full-heading stage of development. Make application prior to the loss of more than 50 percent of green leaf color in the fall. Monitor application site and re-apply this product to any target weeds that were missed, if necessary, before re-seeding the area.</p> <p>For selective control of European beachgrass, apply a 33.3-percent solution of this product during period of active growth using a wiper applicator. Maximizing the amount of individual leaf tissue contacted by the wiper applicator and/or making a second pass through the field in the opposite direction will improve control. Avoid contact of the herbicide solution with desirable vegetation.</p>		
<b>Bentgrass<sup>1</sup></b>	1.5	2
<p>This product alone will provide only partial control of bentgrass (<i>Agrostis spp.</i>). Envoy, Fusilade II, Fusion, and Vantage herbicides can provide an additional mechanism of action for the control of bentgrass. Apply 2 to 4 quarts of this product in a tank-mix with an appropriate rate of one or more of these herbicides in a spray volume of 20 to 40 gallons per acre using broadcast application equipment. When using a handheld sprayer, apply this product at a concentration of 2.66 fluid ounces per gallon in a tank-mix with an appropriate concentration of Envoy, Fusilade, Fusion, or Vantage herbicide. More than one application might be needed for complete control.</p>		
<b>Bermudagrass</b>	5	2
<p>Make application when seedheads are present.</p>		
<b>Bermudagrass, water (knotgrass)</b>	1.5	2
<b>Bindweed, field</b>	3 – 5	2
<p>For control, apply 4 to 5 quarts of this product per acre as a broadcast application west of the Mississippi River and 3 to 4 quarts per acre east of the Mississippi River when bindweed is at or beyond full bloom. For maximum performance, apply this product in late-summer or fall.</p>		
<b>Bittersweet, Oriental</b>	3	2
<p>For control, apply this product as a broadcast application in 3 to 40 gallons of spray solution per acre. For maximum performance, apply this product in late-summer or fall while leaves are still green and after fruit formation. When making application with handheld equipment using a spray-to-wet technique, ensure complete coverage of the target plant with the spray solution.</p>		
<b>Bluegrass, Kentucky</b>	2	2
<p>Apply when most target plants have reached the boot to head stage of development. When application is made prior to the boot stage, reduced control can result. In the fall, make application before plants have turned brown.</p>		
<b>Blueweed, Texas</b>	3 – 5	2
<p>Apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts per acre east of the Mississippi River when most target plants are at or beyond full bloom. For maximum performance, apply this product in late-summer or fall.</p>		
<b>Brackenfern</b>	3 – 4	1 – 1.5
<p>Apply to fully expanded fronds that are at least 18 inches long.</p>		
<b>Bromegrass, smooth</b>	2	2
<p>Apply this product when most target plants have reached the boot to head stage of development. When application is made prior to the boot stage, reduced control can result. In the fall, make application before plants have turned brown.</p>		
<b>Bursage, woolly-leaf</b>	–	2

II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

<b>Perennial Weed Species</b>	<b>Broadcast Rate (quarts/acre)</b>	<b>Handheld Spray-to-Wet Concentration (% solution)</b>
<b>Canarygrass, reed</b> Apply this product when most target plants have reached the boot to head stage of development. When application is made prior to the boot stage, reduced control can result. In the fall, make application before plants have turned brown.	2 – 3	2
<b>Cattail</b> Apply this product when target plants are actively growing and are at or beyond the early to full bloom stage of development. For maximum performance, make application during the summer or fall months.	3 – 5	2
<b>Clover; red, white</b>	3 – 5	2
<b>Cogongrass</b> Apply this product in late-summer or fall when cogongrass is at least 18 inches tall and actively growing. Due to uneven stages of growth and the dense nature of cogongrass vegetation, more than one application might be necessary to achieve control.	3 – 5	2
<b>Dallisgrass</b>	3 – 5	2
<b>Dandelion</b>	3 – 5	2
<b>Dock, curly</b>	3 – 5	2
<b>Dogbane, hemp</b> Apply this product when most target plants have reached the late-bud to flower stage of growth. For maximum performance, make application in late-summer or fall.	4	2
<b>Fescue (except tall)</b>	3 – 5	2
<b>Fescue, tall</b> Apply this product when most target plants have reached the boot to head stage of growth. If applied prior to the boot stage, less than acceptable control might be obtained.	1 – 3	2
<b>Guinea grass</b> Apply this product when most target plants have reached at least the 7-leaf growth stage.	3	1
<b>Hemlock, poison</b> Control can also be achieved by injecting 6 milliliters of a 5-percent solution of this product using a handheld injection device in one leaf cane per plant, 12 inches above the root crown. <sup>2</sup>	2 – 4	1 – 2
<b>Hogweed, giant</b> Inject 6 milliliters of a 5-percent solution of this product into one leaf cane per plant, 12 inches above the root crown. <sup>2</sup>	–	–
<b>Horsenettle</b>	3 – 5	2
<b>Horseradish</b> Apply this product when most target plants have reached the late-bud to flower stage of development. For maximum performance, make application in late-summer or fall.	4	2
<b>Horsetail, field</b> Inject 0.6 milliliter of this product per stem directly into the plant stem, one segment above the root crown. <sup>2</sup>	3 – 5	2
<b>Iceplant</b>	2	1.5 – 2
<b>Ivy; cape, German</b>	2 – 4	1 – 2
<b>Johnsongrass</b>	2 – 3	1



II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

<b>Perennial Weed Species</b>	<b>Broadcast Rate</b> (quarts/acre)	<b>Handheld Spray-to-Wet Concentration</b> (% solution)
Apply this product when most target plants have reached the boot to head stage of development or before plants have turned brown in the fall. When applied prior to the boot stage, reduced control can result.		
<b>Kikuyu grass</b>	2 – 3	2
Apply this product when most target plants have reached the late-bud to flower stage of growth. For maximum performance, make application in late-summer or fall.		
<b>Knotweed; Bohemian, giant, Japanese</b>	4	2
Apply 4 quarts of this product per acre as a broadcast application in 3 to 40 gallons of spray solution. For application using a backpack sprayer and a spray-to-wet technique, apply a 2-percent solution of this product. For maximum performance, do not disturb vegetation in the application area for a minimum of 7 days after application.		
Control can also be achieved by cutting stems cleanly just below the 2nd or 3rd node above the ground and immediately apply 0.5 fluid ounce (15 milliliters) of a 50-percent solution of this product in water into the “well” or remaining internode. Ensure that the upper plant material that was removed is gathered and properly discarded to prevent new plants from propagating from sprouting buds. Use of a bio-barrier, such as cardboard, plywood or plastic sheeting, will help guard against the spread of plant material. The combined total application rate of this product must not exceed 10.6 quarts per acre. <sup>2</sup>		
Control can also be achieved by injecting 6 milliliters of this concentrated product per stem into the second or third internode using a handheld injection device. <sup>2</sup>		
<b>Lantana</b>	–	1 – 1.25
Apply this product when most target plants are at or beyond the bloom stage of growth. Apply the higher spray solution concentration on plants that have reached the woody stage of growth.		
<b>Lespedeza</b>	3 – 5	2
<b>Loosestrife, purple</b>	3	1.5 – 2
Apply this product when most target plants are at or beyond the bloom stage of growth. Maximum performance can be achieved when this product is applied during the summer or fall months. Fall application must be made before a killing frost.		
<b>Lotus, American</b>	3	1
Apply this product when most target plants are at or beyond the bloom stage of growth. Maximum performance can be achieved when this product is applied during the summer or fall months. Fall application must be made before a killing frost. More than one application of this product might be necessary to control re-growth of underground plant parts and seeds.		
<b>Milkweed, common</b>	3	2
Apply this product when most target plants have reached the late-bud to flower stage of growth.		
<b>Muhly, wirestem</b>	2	2
Make application when most target plants are at least 8 inches in height (3 to 4-leaf stage of development) and actively growing.		
<b>Mullein, common</b>	3 – 5	2
<b>Napierglass</b>	3 – 5	2
<b>Nightshade, silverleaf</b>	2 – 3	2
Apply 4.5 to 5 quarts of this product per acre as a broadcast application west of the Mississippi River and 3.5 to 4.5 quarts per acre east of the Mississippi River when most target plants are at or beyond		

II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

<b>Perennial Weed Species</b>	<b>Broadcast Rate</b> (quarts/acre)	<b>Handheld Spray-to-Wet Concentration</b> (% solution)
full bloom. Maximum performance can be achieved when this product is applied in late-summer or fall after berries have formed.		
<b>Nutsedge; purple, yellow</b> Apply this product to control existing nutsedge plants and attached immature nutlets when target plants are in flower or when new nutlets can be found at rhizome tips. Nutlets that have not germinated will not be controlled and will require repeated application of this product for long-term control.	3	1 – 2
<b>Orchardgrass</b> Make application when most target plants have reached the boot to head stage of development. When applied prior to the boot stage, less than acceptable control could be obtained. In the fall, make application before plants have turned brown.	2	2
<b>Pampas grass</b>	3 – 5	1.5 – 2
<b>Para grass</b> More than one application of this product will be needed to achieve complete control. Allow plants to re-grow to the 7 to 10-leaf stage before making next application.	3 – 5	2
<b>Pepperweed, perennial</b>	4	2
<b>Phragmites<sup>1</sup></b> For partial control of phragmites in Florida and the counties of other states bordering the Gulf of Mexico, apply 5 quarts of this product per acre as a broadcast application or a 2-percent solution using a handheld sprayer. In other areas of the U.S., apply 3 to 5 quarts per acre as a broadcast application or, for partial control, apply a 1-percent solution using a handheld sprayer. For maximum performance, make application in late-summer or fall when plants are actively growing and in full bloom. Due to the dense nature of this vegetation (which can prevent good spray coverage) and uneven stages of growth, more than one application of this product might be necessary to achieve control. Visual symptoms of control will be slow to develop.	3 – 5	1 – 2
<b>Quackgrass</b> Apply this product when most target plants are at least 8 inches in height (3 to 4-leaf stage of development) and actively growing.	2 – 3	2
<b>Redvine<sup>1</sup></b>	2	2
<b>Reed; common, giant</b> For maximum performance, apply this product in late-summer or fall. Control can also be achieved by injecting 8 milliliters of this concentrated product (undiluted) directly into the second or third internode using a handheld injection device. <sup>2</sup>	4 – 5	2
<b>Ryegrass, perennial</b> Apply this product when most target plants have reached the boot to head stage of growth. When applied prior to the boot stage, reduced control can result. In the fall, make application before ryegrass turns brown.	2 – 3	1
<b>Smartweed, swamp</b>	3 – 5	2
<b>Spatterdock</b> Make application when most target plants are in full bloom. For maximum performance, make application in the summer or fall.	4	1
<b>Sowthistle, perennial</b>	2 – 3	2
<b>Spurge, leafy<sup>1</sup></b>	–	2
<b>Starthistle, yellow</b>	2 – 3	2

II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

<b>Perennial Weed Species</b>	<b>Broadcast Rate (quarts/acre)</b>	<b>Handheld Spray-to-Wet Concentration (% solution)</b>
<b>Sweet potato, wild</b> <sup>1</sup> Make application when most target plants are at or beyond the bloom stage of growth. More than one application will be needed to achieve control.	–	2
<b>Thistle, artichoke</b> Make application when target plants are at or beyond the bud stage of growth.	2 – 3	1 – 2
<b>Thistle, Canada</b> Make application when target plants are at or beyond the bud stage of growth. Control can also be achieved by stem-injection. Cut 8 to 9 of tallest plants in a clump at bud stage. Push a cavity needle into the stem center and then slowly remove it as you inject 0.6 milliliter of this concentrated product into the stem. <sup>2</sup>	2 – 3	2
<b>Timothy</b> Make application when most target plants have reached the boot to head stage of development. If application is made prior to the boot stage, reduced control can result. In the fall, make application before plants turn brown.	2 – 3	2
<b>Torpedograss</b> <sup>1</sup>	4 – 5	2
<b>Trumpetcreeper</b> <sup>1</sup>	2 – 3	2
<b>Tules, common</b> Make application to target plants at or beyond the seedhead stage of development. Visual symptoms will be slow to appear and might not appear for 3 or more weeks after application.	–	2
<b>Vaseygrass</b>	3 – 5	2
<b>Velvetgrass</b>	3 – 5	2
<b>Wheatgrass, western</b> Make application when most target plants have reached the boot to head stage of development. Application made prior to the boot stage could result in reduced control. In the fall, make application before plants turn brown.	2 – 3	2

<sup>1</sup> Partial control only

<sup>2</sup> When using stem injection, the combined total use of this product must not exceed 10.6 quarts per acre per year. At 6 milliliters of concentrated (undiluted) product per stem, 10.6 quarts of this product will treat approximately 1670 stems per acre per year. The number of stems that can be treated per acre will vary depending on the injection volume and the concentration of this product in the application solution.

**11.4 Woody Brush, Trees and Vines**

Apply this product to brush, trees and vines that are actively growing after full leaf expansion, unless otherwise directed. Apply this product at a rate or spray solution concentration towards the upper end of a given range to control larger brush and trees and/or for application in areas of dense vegetative growth, or for the control of vines that have reached the woody stage of growth.

In most areas, maximum performance of this product on woody brush, trees and vines can be obtained when application is made in late-summer or fall after fruit formation. In arid areas, application of this product in the spring to early-summer when brush and trees are at high moisture content and flowering could provide better results. Poor control can be expected when this product is applied to drought-stressed brush, trees and vines.

## II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

Some autumn color on undesirable deciduous species of brush and trees is acceptable when applying this product in the fall, provided no major leaf drop has occurred. Reduced performance of this product could result if application is made after a frost. Herbicidal effects might not appear prior to frost or senescence following a fall application.

For maximum performance, allow 7 or more days after application of this product before mowing, cutting, tilling, burning or removal of woody brush, trees or vines from the application site. Repeated application of this product will be necessary to control brush, trees and vines regenerating from underground parts or seed.

**TANK MIXTURES:** This product may be applied at any rate listed on this label in a tank mixture with the following products to broaden the spectrum of control of herbaceous weeds, woody brush, trees and vines. For control of dense stands of vegetation or for hard-to-control woody brush, trees and vines, increase the application rate or spray solution concentration of the tank-mix product towards the upper end of the range. Refer to the individual product labels for approved uses and application rates. It is the responsibility of the pesticide user to ensure that the intended use is included on the label of all products added to a tank mixture. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

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*[Active ingredients and products to be added to the final printed labeling for tank-mixing may be selected from the following list:*

imazapyr; metsulfuron methyl; triclopyr

Arsenal; Arsenal Herbicide Applicators Concentrate; Escort XP; Forestry Garlon 4 Specialty; Forestry Garlon XRT Specialty; Garlon 3A Specialty; Garlon 4 Specialty; Garlon 4 Ultra Specialty; Vastlan Specialty]

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Ensure that the proper amount of the Garlon herbicide is thoroughly mixed with water in the spray tank before adding this product.

### **Cut Stump Application**

This product may be used to control re-growth and re-sprouting of woody brush and trees on any site listed on this label.

Cut the woody brush or tree close to the soil surface and immediately apply a 50 to 100-percent (undiluted) solution of this product to the freshly-cut surface using an applicator capable of applying this product to the entire cambium. A delay in application could result in reduced performance. For best results, cut the woody brush or tree during period of active growth and full leaf expansion and apply this product.

**DO NOT MAKE A CUT STUMP APPLICATION WHEN THE ROOTS OF DESIRABLE WOODY BRUSH OR TREES MIGHT BE GRAFTED TO THE ROOTS OF THE CUT STUMP, AS INJURY TO THE ADJACENT TREES COULD OCCUR.** Some sprouts, stems, or trees can share a common root system. Adjacent trees having a similar age, height and spacing could be an indicator of a shared root system. Whether grafted or shared, injury is likely to occur to adjacent stems or trees when this product is applied to one or more trees sharing a common root system.

### **Woody Brush and Tree Injection and Frill Application**

This product may be used to control woody brush and trees listed in this section by injection or frill application on any site listed on this label.

Inject or apply the equivalent of 1 milliliter (0.04 fluid ounce) of this product for every 2 to 3 inches of trunk diameter at breast height (DBH). If injecting this product into the woody brush or tree, use equipment capable of penetrating into the living plant tissue under the bark.

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For frill application, apply a 50 to 100-percent (undiluted) solution of this product in water to either a continuous frill around the tree or to cuts evenly spaced around the tree below all branches. As tree diameter increases, better results can be achieved by applying this product to a continuous frill or more closely spaced cuttings. Avoid application techniques that allow runoff of this product to occur from frilled or cut areas. In species that freely exude sap, make the frill or cuts at an oblique angle to produce a cupping effect and apply this concentrated product undiluted. For maximum performance, make this application during period of active growth and after full leaf expansion.

### Low-Volume Backpack and Modified High-Volume Application

For control or partial control of woody bush, trees and vines listed on this label less than 10 feet tall using a backpack sprayer or other handheld equipment with a directed low-volume foliar application technique, apply a 5 to 10-percent solution of this product evenly over the plant crown to cover 50 percent of the upper foliage of the undesired vegetation. For taller brush and trees, a high-volume handgun can be modified by reducing the nozzle size and spray pressure to produce a modified high-volume directed spray application of a 3 to 5-percent solution in 40 to 60 gallons of spray solution per acre.

**WOODY BRUSH, TREES AND VINES RATE TABLE**

Species	Broadcast Rate (quarts/acre)	Handheld Spray-to-Wet Concentration (% solution)
<b>Alder</b>	3 – 4	1 – 1.5
<b>Ash<sup>1</sup></b>	2 – 5	1 – 2
<b>Aspen, quaking</b>	2 – 3	1 – 1.5
<b>Bearclover<sup>1</sup> (Bearmat)</b>	2 – 5	1 – 2
<b>Beech<sup>1</sup></b>	2 – 5	1 – 2
<b>Birch</b>	2	1
<b>Blackberry</b>	3 – 4	1 – 1.5
<b>Blackgum</b>	2 – 5	1 – 2
<b>Bracken</b>	2 – 5	1 – 2
<b>Broom; French, Scotch</b>	2 – 5	1.5 – 2
<b>Buckwheat, California<sup>1</sup></b>	2 – 4	1 – 2
<b>Cascara<sup>1</sup></b>	2 – 5	1 – 2
<b>Castor bean</b>	2 – 5	2
Also for control, inject 5 milliliters of this concentrated (undiluted) product per plant directly into the lower portion of the main stem using a handheld injection device. <sup>2</sup>		
<b>Catsclaw<sup>1</sup></b>	–	1–1.5
For partial control, apply this product when at least 50 percent of the new leaves are fully developed.		
<b>Ceanothus<sup>1</sup></b>	2 – 5	1 – 2
<b>Chamise<sup>1</sup></b>	2 – 5	1
<b>Cherry; bitter, black, pin</b>	2 – 3	1 – 1.5
<b>Coyote brush</b>	3 – 4	1.5 – 2
For control, apply this product when at least 50 percent of the new leaves are fully developed.		
<b>Deerweed</b>	2 – 5	1

II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

<b>Species</b>	<b>Broadcast Rate (quarts/acre)</b>	<b>Handheld Spray-to-Wet Concentration (% solution)</b>
<b>Dogwood<sup>1</sup></b>	2 – 5	1 – 2
<b>Elderberry</b>	2	1
<b>Elm<sup>1</sup></b>	2 – 5	1 – 2
<b>Eucalyptus, blue gum</b> For control of eucalyptus re-sprouts, apply this product using a handheld sprayer when re-sprouts are 6 to 12 feet tall. Ensure complete coverage.	–	2
<b>Gallberry</b>	2 – 5	1 – 2
<b>Gorse<sup>1</sup></b>	2 – 5	1 – 2
<b>Hackberry, western</b>	2 – 5	1 – 2
<b>Hasardia<sup>1</sup></b>	2 – 4	1 – 2
<b>Hawthorn</b>	2 – 3	1 – 1.5
<b>Hazel</b>	2	1
<b>Hickory<sup>1</sup></b>	2 – 5	1 – 2
<b>Honeysuckle</b>	3 – 4	1 – 1.5
<b>Hornbeam, American<sup>1</sup></b>	2 – 5	1 – 2
<b>Ivy, poison</b>	4 – 5	2
<b>Kudzu</b>	4	2
<b>Locust, black<sup>1</sup></b>	2 – 4	1 – 2
<b>Madrone (re-sprouts)<sup>1</sup></b>	–	2
<b>Manzanita<sup>1</sup></b>	2 – 5	1 – 2
<b>Maple, red</b> For control, apply a 1 to 1.5-percent solution of this product using a handheld sprayer when leaves are fully developed. For partial control, apply 2 to 4 quarts per acre as a broadcast application.	2 – 4	1 – 1.5
<b>Maple, sugar</b> For control, apply this product using a handheld sprayer when at least 50 percent of the new leaves are fully developed.	–	1 – 1.5
<b>Maple, vine<sup>1</sup></b>	2 – 5	1 – 2
<b>Monkey flower<sup>1</sup></b>	2 – 4	1 – 2
<b>Oak; black, white<sup>1</sup></b>	2 – 4	1 – 2
<b>Oak; northern pin</b> For control, apply this product when at least 50 percent of the new leaves are fully developed.	2 – 4	1 – 1.5
<b>Oak, poison</b> Repeated application will be needed to maintain control. Application in the fall must be made before leaves lose green color.	4 – 5	2
<b>Oak, post</b>	3 – 4	1 – 1.5
<b>Oak, red</b> For control, apply this product using a handheld sprayer when at least 50 percent of the new leaves are fully developed.	–	1 – 1.5

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<b>Species</b>	<b>Broadcast Rate (quarts/acre)</b>	<b>Handheld Spray-to-Wet Concentration (% solution)</b>
<b>Oak, scrub<sup>1</sup></b>	2 – 4	1 – 1.5
<b>Oak, southern red</b>	2 – 3	1 – 1.5
<b>Orange, Osage</b>	2 – 5	1 – 2
<b>Olive, Russian<sup>1</sup></b>	2 – 5	1 – 2
<b>Peppertree, Brazilian<sup>1</sup></b> (Florida holly)	2 – 5	1 – 2
<b>Persimmon<sup>1</sup></b>	2 – 5	1 – 2
<b>Pine</b>	2 – 5	1 – 2
<b>Poplar, yellow<sup>1</sup></b>	2 – 5	1 – 2
<b>Redbud, eastern</b>	2 – 5	1 – 2
<b>Rose, multiflora</b> Make application prior to leaf deterioration by leaf-feeding insects.	2	1
<b>Sage, black</b>	2 – 4	1
<b>Sage, white<sup>1</sup></b>	2 – 4	1 – 2
<b>Sagebrush, California</b>	2 – 4	1
<b>Salmonberry</b>	2	1
<b>Saltcedar<sup>1</sup></b> For partial control, apply a 1 to 2-percent solution of this product using a handheld sprayer or 2 to 5 quarts per acre as a broadcast application. For control, apply a 1 to 2-percent solution of this product in a tank-mix with an appropriate concentration of Arsenal herbicide or Arsenal Herbicide Applicators Concentrate using a handheld sprayer. For control using broadcast application, apply 2.25 quarts of this product per acre in a tank-mix with an appropriate amount of Arsenal herbicide or Arsenal Herbicide Applicators Concentrate to plants less than 6 feet tall. To control saltcedar greater than 6 feet tall using broadcast application, apply 4.5 quarts of this product per acre in a tank-mix with a higher rate of Arsenal herbicide or Arsenal Herbicide Applicators Concentrate.	2 – 5	1 – 2
<b>Sassafras<sup>1</sup></b>	2 – 5	1 – 2
<b>Sourwood<sup>1</sup></b>	2 – 5	1 – 2
<b>Sumac; laurel, poison, smooth, sugarbush, winged<sup>1</sup></b>	2 – 4	1 – 2
<b>Sweetgum</b>	2 – 3	1 – 1.5
<b>Swordfern<sup>1</sup></b>	2 – 5	1 – 2
<b>Tallowtree, Chinese</b>	–	1
<b>Tan oak (re-sprouts)<sup>1</sup></b>	–	2
<b>Thimbleberry</b>	2	1
<b>Tobacco, tree<sup>1</sup></b>	2 – 4	1 – 2
<b>Toyon<sup>1</sup></b>	–	2
<b>Trumpetcreeper</b>	2 – 3	1 – 1.5
<b>Virginia creeper</b>	2 – 5	1 – 2
<b>Waxmyrtle, southern<sup>1</sup></b>	2 – 5	1 – 2
<b>Willow</b>	3	1

II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

Species	Broadcast Rate (quarts/acre)	Handheld Spray-to-Wet Concentration (% solution)
<b>Yerba Santa, California<sup>1</sup></b>	–	2

<sup>1</sup> Partial control

<sup>2</sup> When using stem injection, the combined total use of this product must not exceed 10.6 quarts per acre per year. At 5 milliliters of concentrated (undiluted) product per stem, 10.6 quarts of this product will treat approximately 2000 stems per acre per year. The number of stems that can be treated per acre will vary depending on the injection volume and the concentration of this product in the application solution.

**12.0 LIMIT OF WARRANTY AND LIABILITY**

Seamless Control LLC (“Company”) warrants that this product conforms to the chemical description on the label. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall use this product only for the purposes of and in accordance with the Complete Directions for Use label (“Directions”) and shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

To the extent consistent with applicable law, buyer and all users are responsible for all loss, injuries or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, crop injury or failure of this product to control weed biotypes which develop resistance to glyphosate, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, use and/or application in any manner not explicitly set forth in or inconsistent with the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

This Company does not warrant any product reformulated or repackaged from this product except in accordance with this Company’s stewardship requirements and with express written permission from this Company.

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II. DIRECTIONS FOR USE ON INDUSTRIAL, TURF AND ORNAMENTAL SITES

Upon opening and using this product, buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement. If terms are not acceptable, return at once unopened.

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