

80967-6

12/29/2008

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U.S. ENVIRONMENTAL PROTECTION AGENCY

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

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

EPA Reg. Number:

Date of Issuance:

80967-6

DEC 29 2008

Term of Issuance: **Conditional**

Name of Pesticide Product:

**GLY N GO Herbicide**

Name and Address of Registrant (include ZIP Code):

Mey Corporation  
121 S. Estes Drive, Ste. 101  
Chapel Hill, NC 27514

**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/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

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 conditionally registered in accordance with FIFRA provided you agree in writing to:

1. Submit the following outstanding product chemistry data requirement: one year storage stability and corrosion characteristics study, within one year from the date of this letter.

Signature of Approving Official:

James Tompkins, Product Manager (25)  
Herbicide Branch, Registration Division (7505P)

Date:

DEC 29 2008

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2. Change the Hazards to Humans and Domestic Animals statements to "Corrosive. Causes irreversible eye damage. Harmful if inhaled or swallowed. Harmful if absorbed through the skin. Avoid contact with eyes, skin, or clothing. Avoid breathing dust."
3. To the First Aid section add "If on skin:  
Take off contaminated clothing.  
Rinse skin immediately with plenty of water for 15-20 minutes.  
Call a poison control center or doctor for treatment advice."
4. To the PPE section, add "protective eyewear".
5. Change the Environmental Hazards section to "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinseate."
6. To the Agricultural Use Requirements Box change the REI to "12 hrs." and add "protective eyewear".
7. On page 8 and 9 change "84.5 fl oz" to "1/2 gallon".
8. Throughout the label delete all section number headings such as: On Page 10 delete "A.6.1.1", "A.6.1.2", and "A.6.1.3". On page 19 delete "Section B.1.0". On page 20 delete "section A.5.2". On page 22, 24, 27, 29, etc. delete "section B.1.0". Etc....
9. On page 20 delete "recommendations" and change "rate recommendations" to "rate specifications". Throughout the label when talking about use sites, rate applications, and tank mixes replace "Recommendations" with "Specifications".
10. On page 63 replace "Use in areas such as" with "Use in area including" and delete "and similar industrial and non-crop sites". On page 72 delete "and similar sites" from the Tank Mixtures heading.

You will submit one copy of your final printed labeling before you release the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). A stamped copy of labeling is enclosed for your records. If you have any questions please contact Erik Kraft at 703-308-9358.

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# GLY N GO

## Complete Directions For Use

GLY N GO MUST BE USED WITH N TANK™ WATER CONDITIONER/BUFFER. DO NOT USE THIS PRODUCT WITH ANY OTHER SURFACTANTS, CONDITIONERS OR BUFFERING AGENTS. DO NOT USE THIS PRODUCT WITHOUT N TANK® WATER CONDITIONER/BUFFER.

Avoid Contact Of Herbicide With Foliage, Green Stems, Exposed Non-Woody Roots Or Fruit Of Crops (Except As Specified For Individual Roundup Ready® Crops), Desirable Plants And Trees, Because Severe Injury Or Destruction May Result.

Selective broad-spectrum weed control in Roundup Ready™ crops. Non-selective, broad-spectrum weed control for many cropping systems, farmsteads and Conservation Reserve Program acres and a complete broad-spectrum postemergence professional herbicide for industrial, turf and ornamental weed control.

**Read the entire label before using this product. Use only according to label instructions.**

**Active Ingredient:**

\*N-(phosphonomethyl) glycine.....95.0%

**Other Ingredients:** .....5.0%

**Total:**.....100.0%

\*Contains 0.95 lb of acid per lb of product.

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated:**

*12-29-09*

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

*80967-6*

~~*12-29-09*~~

## DANGER

**Keep Out of Reach of Children**

**Read entire label before using this product.**



EPA Reg. No.: 80967-XX

EPA Est. No.: 81105-CHN-001; 81889-CHN-001; 73432-CHN-001; 10182-BL-001; 75460-CHN-001; 84999-CHN-001; 83059-CHN-001; 65656-CHN-003; 83961-CHN-001; 83961-CHN-001

Net Contents: 5, 10, 20, 30, 40, 50 lbs.

Manufactured in China for:  
MEY Corporation  
121 S. Estes Drive, Ste. 101  
Chapel Hill, NC 27514  
USA.  
Tel. (919) 932-5800

<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 – 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>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. This product is identified as GLY N GO, EPA Reg. No. 80967-X. You may also contact 1-800 -222-1222 for emergency treatment information.</p>	
<p><b>NOTE TO PHYSICIAN:</b> Probable mucosal damage may contraindicate the use of gastric lavage.</p>	

### PRECAUTIONARY STATEMENTS

**Hazards to Humans and Domestic Animals.**

**DANGER** Harmful if inhaled or swallowed. Avoid breathing dust. Causes moderate eye irritation. Avoid contact with eyes or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

### ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to the discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

### PHYSICAL OR CHEMICAL HAZARDS

Solutions of this product should be mixed and using only stainless steel, aluminum, fiberglass, plastic and plastic-lined containers.

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

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

the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

#### Personal Protective Equipment (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, shoes plus socks and chemical resistant gloves.

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

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

#### User Safety Recommendations:

Users should:

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

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This product can only be used in accordance with the Directions for Use on this label or in separately published MEY Corporation Supplemental 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 regulations.

**THIS IS AN END-USE PRODUCT AND MEY CORPORATION, DOES NOT INTEND AND HAS NOT REGISTERED IT FOR FORMULATION, REFORMULATION, MANUFACTURING OR REPACKAGING USE.**

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**Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protection 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 <sup>12</sup>4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical resistant gloves greater than 14 mills in thickness composed of materials such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber, and shoes plus socks. *Product eye wear*

**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 to prevent transfer of this product onto desirable vegetation.

**Storage and Disposal**

Do not contaminate water, food or feed by storage and disposal.

**Pesticides Storage:** Keep container closed to prevent spills and contamination.

**Pesticide Disposal:** Wastes of this product may be dangerous. Improper disposal of excess pesticide or rinse is a violation of Federal Law. If these wastes cannot be disposed of according to the label instructions, contact your State Pesticide or Environmental Control Agency, or Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**Empty Container Disposal:** Do not reuse outer bag or box. Dispose of outer bag and box in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke. *PR 2007-V*

**GENERAL INFORMATION**

**(How this product works)**

**Product Description:** This product is a postemergent, systemic herbicide with no soil residual activity. It is generally non-selective and gives broad spectrum control of many annual weeds, perennial weeds, woody brush and trees. **(GLY N GO) (This product)** is a ~~new~~ (US PATENT 6,936,572 ) two part system where technical

*Removal*

glyphosate acid. (GLY N GO) (This product) is used with a water conditioner/buffer (N Tank). The (GLY N GO) (This product) **MUST** be used with the N Tank Water Conditioner/Buffer. It may be applied through most standard industrial or field-type sprayers after dilution and mixing with water according to label instructions.

Do not add surfactants, additives containing surfactants, buffering agents, pH adjusting agents or ammonium sulfate to the spray solution. Drift control additives or dyes and colorants may be used. See the "MIXING" section of this label for instructions.

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

**Stage of Weeds:** Annual weeds are easiest to control when they are small. Best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity. Refer to the annual, perennial, woody brush and trees rate tables for recommendations for specific weeds.

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

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

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

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

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

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

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

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

**Tank Mixing:** This product does not provide residual weed control. For subsequent residual weed control, follow a label approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used. Use according to the most restrictive label directions for each product in the mixture.

When apply tank mixtures, the product used in the tank mix must be registered for use on the site.

Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly specified in this labeling. Mixing this product with herbicides or other materials not specified on this label may result in reduced performance.

**Annual Maximum Use Rate:** Except as otherwise specified in a crop section of this label, the combined total of all treatments must not exceed 6.2 pounds of this product per acre per year.

For noncrop uses, the combined total of all treatments must not exceed 8.2 pounds of this product per acre per year.

The maximum use rates apply to this product combined with the use of all other herbicides containing glyphosate or sulfosate as the active ingredient, whether applied as mixtures or separately. Calculate the application rates and ensure that the total use of this and other glyphosate or sulfosate containing products does not exceed stated maximum use rate.

#### ATTENTION

**AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY CROPS), DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.**

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

Do not allow the herbicide solution to mist, drip, drift or splash onto desirable vegetation since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing or when there are other meteorological conditions that favor spray drift. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. **AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.**

**NOTE:** Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences.

#### **MIXING**

This package contains four - 4 pound water soluble packets of **(GLY N GO) (This product)** and one 2.0 gallon container of **N Tank Water Conditioner/Buffer**. Do not



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handle the water soluble packets of (GLY N GO) (This product) with wet gloves or allow them to become wet prior to addition to the spray tank. Do not break open the water soluble packets of (GLY N GO) (This product) use entire contents of packet. If all packets of (GLY N GO) (This product) are not used, close and reseal outer container to protect remaining water soluble packets.

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

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

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

**NOTE:** REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED, SUCH AS VISIBLY MUDDY WATER OR WATER FROM PONDS AND DITCHES THAT IS NOT CLEAR.

**SPRAY SOLUTION AND AREA TREATMENT TABLES OF EQUIVALENTS**

One 4 pound packet of (GLY N GO) (This product) is equivalent to:

Wise Up Plus TM	5.16 Quarts
Roundup WEATHERMAX™	3.44 Quarts
Roundup ULTRAMAX™	4.12 Quarts
Roundup Original™	5.16 Quarts

**Spray Solutions**

One 4 pound packet when mixed according to the directions under "MIXING WITH WATER" will produce the following amounts of spray solutions:

SPRAY SOLUTION CONCENTRATION						
	0.3%	0.4%	0.8%	1.25%	4.0%	6.0%
AMOUNT OF WATER	162 Gal	121 Gal	60 Gal	39 Gal	12 Gal	8 Gal

**Area Treatment Equivalents**

Rates of (GLY N GO) Per Acre	Acres Treated by one 4 lb. Water Soluble Packet
0.07	57.14
0.1	40
0.15	26.67
0.2	20

0.3	12.5
0.4	10
0.6	6.25
0.8	5
1.2	3.33
1.6	2.5
2	2
2.5	1.6
3	1.33
4	1

### Mixing With Water

Mix spray solutions of this product as follows:

1. Fill the mixing or spray tank with at least one-half the required amount of water and start agitation.
2. Add one-fourth container (84.5 fl oz) of **N Tank Water Conditioner/Buffer** for each water soluble packet of **(GLY N GO) (This product)** to be used in the spray mixture and mix well.
3. Add the unopened **(GLY N GO) (This product)** packets to the water/ **N Tank Water Conditioner/Buffer** mixture while maintaining agitation. Add remaining water to spray tank directing the water stream at the floating packet(s) until the required water volume is reached. Water soluble packet(s) should completely dissolve in approximately five minutes. Dissolution rate may be slowed by cold water, lack of proper agitation, or water containing high concentrations of boron or sulfur.
4. Use caution to avoid siphoning back into the carrier source. Use approved anti-back-siphoning devices where required by state or local regulations.
5. If during mixing and application, foaming of the spray solution occurs, use an approved anti-foam or defoaming agent.
6. Maintain proper agitation at all times until spraying is completed.

### Tank Mixing Procedure

Mix labeled tank mixtures of this product with water as follows:

1. Place a 20 to 35 mesh screen or welling basket over filling port.
2. Through the screen, fill the spray tank one-half full with water and start agitation.
3. If a wettable powder is used, make a slurry with the water carrier, and add it SLOWLY through the screen into the tank. Continue agitation.
4. If a flowable formulation is used, premix one part flowable with one part water. Add diluted mixture SLOWLY through the screen into the tank. Continue agitation.
5. If an emulsifiable concentrate formulation is used, premix one part emulsifiable

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concentrate with two parts water. Add diluted mixture slowly through the screen into the tank. Continue agitation.

6. Add one-fourth container (84.5 fl oz) of **N Tank Water Conditioner/Buffer** for each water soluble packet of **(GLY N GO) (This product)** to be used in the spray mixture and mix well.
7. Add the unopened **(GLY N GO) (This product)** packets to the water/**N Tank Water Conditioner/Buffer** mixture while maintaining agitation. Add remaining water to spray tank directing the water stream at the floating packet(s) until the required water volume is reached. Water soluble packet(s) should completely dissolve in approximately five minutes. Dissolution rate may be slowed by cold water, lack of proper agitation, or water containing high concentrations of boron or sulfur.
8. If during mixing and application, foaming of the spray solution occurs, use an approved anti-foam or defoaming agent.
9. Add individual formulations to the spray tank as follows: wettable powder, flowable, emulsifiable concentrate, drift control additive and water soluble liquid.
10. Maintain good agitation at all times until the contents of the tank are sprayed

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

Refer to the "**TANK MIXING**" section of "**GENERAL INFORMATION**" for additional precautions.

#### **Ammonium Sulfate**

**DO NOT** use ammonium sulfate with this product.

#### **Colorants Or Dyes**

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

#### **Drift Control Additives**

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

#### **Surfactants**

Use only **N Tank** with this product any other additional surfactants are not required.

#### **Buffering and pH Adjusting Agents**

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Use only **N Tank** with this product. Any other additional buffering and pH adjusting agents are not required.

## APPLICATION EQUIPMENT AND TECHNIQUES

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

This product may be applied with the following application equipment:

**Aerial--Fixed Wing and Helicopter**

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

**Hand-Held and High-Volume Spray Equipment** – Handguns, handwands, mistblowers\*, lances and other hand-held and motorized spray equipment used to direct the spray onto weed foliage. Agitation must be maintained at all time.

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

**Selective Equipment**--Recirculating sprayers and shielded and hooded sprayers.

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

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES.

### Aerial Equipment

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

Use the specified rates of this herbicide in 3 to 15 gallons of water per acre unless otherwise specified on this label. Unless otherwise specified, do not exceed 0.8 pounds of this product per acre. Refer to the individual use area sections of this label for specified volumes, application rates, and further instructions.

- FOR AERIAL APPLICATION IN CALIFORNIA SEE SECTION A.6.1.1
- FOR SPECIFIC COUNTIES IN CALIFORNIA SEE SECTION A.6.1.2.
- FOR ARKANSAS SEE SECTION A.6.1.3

This product plus dicamba tank mixtures may not be applied by air in California.

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

### AERIAL SPRAY DRIFT MANAGEMENT

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops.

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

**Importance of droplet size**

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

**Controlling droplet size**

- **Volume:** Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with the higher rated flows produce larger droplets.
- **Pressure:** Use the lower spray pressures specified for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of nozzles:** Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle orientation:** Orienting nozzles so that the spray is released backwards, parallel to the airstream, will produce larger droplets than other orientations. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- **Nozzle type:** Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce larger droplets than other nozzle types.
- **Boom Length:** For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.
- **Application Height:** Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces the exposure of the droplets to evaporation and wind.

**Swath Adjustment**

When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential.

(higher wind, smaller droplets, etc.).

### **Wind**

Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift.

### **Temperature and Humidity**

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

### **Temperature inversions**

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

### **Sensitive areas**

The product should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

Avoid direct application to any body of water.

### **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. This product is acidic. **PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR IS MOST SUSCEPTIBLE.** The maintenance of a corrosion resistant organic coating (paint), which meets aerospace specification MIL-C-38413, may prevent corrosion.

### **For Aerial Application in California Only**

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Aerial applications of this product are allowed in the following situations:

1. In fallow and reduced tillage systems prior to the emergence or transplanting of labeled crops.
2. In alfalfa and pasture renovation applications.
3. Over-the-top applications in Roundup Ready corn and cotton. Refer to further label instructions for Roundup Ready corn and Roundup Ready cotton for specific application instructions for over-the-top applications in these crops.
4. Preharvest in alfalfa, corn, cotton, wheat, Roundup Ready corn and Roundup Ready cotton. Refer to Roundup Ready corn and Roundup Ready cotton sections of this label for specific preharvest application instructions for each individual crop.

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

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

When tank mixing this product with 2,4-D for aerial applications, only 2,4-D amine formulations may be used. This tank mixture may be used for fallow and reduced tillage systems and alfalfa and pasture renovation applications only.

**DO NOT EXCEED THE FOLLOWING MAXIMUM RATES WHEN MAKING APPLICATIONS BY AIR:**

0.8 Pounds Per Acre	1.6 Pounds Per Acre
Corn	Alfalfa
Roundup Ready® Corn	Cotton
Wheat	Roundup Ready' Cotton
	Fallow
	Reduced tillage systems
	Pastures

**Aerial Equipment**

Use the specified rates of this product in 3 to 15 gallons of water per acre. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters.

**AVOID DRIFT-DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION WHICH FAVORS DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE**

## VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

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

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

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations that dispense spray as fine spray droplets. Do not angle nozzles forward into the air-stream and do not increase spray volume by increasing nozzle pressure. Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

Ensure uniform application-To avoid streaking, uneven, or over-lapped application, use appropriate marking devices.

### **For Aerial Application in Fresno County, California Only (From February 15 Through March 31 Only)**

#### **Applicable Area**

This section only applies to the area contained inside the following boundaries within Fresno County, California.

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

#### **General Information**

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

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

#### **Written Recommendations**

A written recommendation **MUST** be submitted by or on behalf of the applicator to the Fresno County Agricultural Commissioner 24 hours prior to the application.



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This written recommendation 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**

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 insure that proper rates of herbicides and adjuvants are being applied during commercial use. Applicator must document such calibrations and testing. Demonstration of performance at Fresno County Agricultural 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.

To report known or suspected misuse of this product, call 1-800-332-3111.

Note: For aerial application from April 1 through February 14, refer to the "FOR AERIAL APPLICATION IN CALIFORNIA ONLY" Section of this label.

**For Aerial Application in Arkansas Only**

**USE DIRECTIONS:** AVOID DRIFT. DO NOT APPLY INTO STILL AIR WHERE THERE IS A TEMPERATURE INVERSION LAYER LOW ENOUGH FOR FINE SPRAY PARTICLES TO BECOME SUSPENDED AND MOVE OUTSIDE THE TARGET AREA WHEN THE INVERSION LAYER MOVES. DO NOT APPLY WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION THAT FAVORS DRIFT. DRIFT IS LIKELY TO CAUSE DAMAGE TO ANY VEGETATION CONTACTED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

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

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

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

The distance of the outermost nozzles on the boom must not exceed 75 percent of the length of the wingspan or rotor. In many cases, reducing this distance to 65 percent of the length of the wingspan or rotor will improve drift control without

affecting the swath width.

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

Do not apply this product when winds are in excess of 10 mph.

Do not apply when there is a low-level inversion where fine spray particles could be suspended in still air and move outside the target area when the inversion layer moves. These conditions may occur when wind speeds are less than 2 mph.

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

1. Do not apply within 100 feet of any desirable vegetation or crops.
2. If wind up to 5 mph is blowing toward desirable vegetation or crops, do not apply within 500 feet upwind of the desirable vegetation or crops.
3. Winds blowing from 5 to 10 mph toward desirable vegetation or crops will likely require buffer zones in excess of 500 feet.

### **Ground Broadcast Equipment**

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

### **Hand-Held or High-Volume Equipment**

Apply to foliage of vegetation to be controlled. For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. Do not spray to the point of runoff. Use coarse sprays only. For specified rates and timing, refer to the "ANNUAL WEEDS -- HAND-HELD OR HIGH-VOLUME EQUIPMENT" section of this product label.

### **Selective Equipment**

This product may be applied through recirculating spray systems, shielded applicators, and hooded sprayers, after dilution and thorough mixing with water, to listed weeds growing in any noncrop site specified on this label.

In cropping systems, hooded sprayers and shielded sprayers in row middles (in between rows of crop plants) where any dripping or leaking will not contact crop foliage. Such equipment must be capable of preventing all crop contact with herbicide solutions and operated without leakage of spray mists or dripping onto crop.

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## **AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION.**

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

Applications made above the crops should be made when the weeds are a minimum of 6 inches above the desirable vegetation. Better results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations or when the height of the weeds varies so that not all weeds are contacted. In these instances, repeat treatment may be necessary.

### **Recirculating spray system**

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

### **Shielded and hooded applicators**

When applied under the conditions described in the following paragraphs for shielded and hooded applications, this product at specified rates will control those weeds listed in the "ANNUAL WEEDS RATE TABLE" and "PERENNIAL WEEDS RATE TABLE" sections of this label. A hooded sprayer is a type of shielded applicator where the spray pattern is fully enclosed including top, sides, front and back, thereby shielding the crop from the spray solution. Keep shields on these sprayers adjusted to protect desirable vegetation. When applying to crops grown on raised beds, ensure that the hood is designed to completely enclose the spray solution. If necessary, extend the front and rear flaps of the hoods to reach the ground in deep furrows. **EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION.**

This equipment must be set up and operated in a manner that avoids bouncing or raising the hoods off the ground in any way. If the hoods are raised, spray particles may escape and come into contact with the crop, causing damage or destruction of the crop. Avoid operation on rough or sloping ground where the spray hoods might be raised off the ground.

Use hoods designed to minimize excessive dripping or run-off down the insides of the hoods. 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 is specified. Spray volume should be 20-30 gallons per acre.

These procedures will reduce the potential for crop injury:

- The spray hoods must be operated on the ground or skimming across the ground.
- Leave at least an 8 inch untreated strip over the drill row. For example, if the crop row width is 38 inches, the maximum width of the spray hood should be 30 inches.

- Maximum tractor speed: 5 mph to avoid bouncing of the spray hoods.
- Maximum wind speed: 10 mph.
- Use low-drift nozzles that provide uniform coverage within the treated area.

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

**Injection Systems**

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

**CDA Equipment**

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

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

**FOOD CROP USES**

**ANNUAL AND PERENNIAL CROPS (Alphabetical)**

**NOTE:** THIS SECTION GIVES GENERAL DIRECTIONS THAT APPLY TO ALL LISTED CROPS WITHIN SECTION B.1 GROUPED ALPHABETICALLY BELOW. SEE THE INDIVIDUAL CROP CATEGORIES FOR SPECIFIC INSTRUCTIONS, PREHARVEST INTERVALS, AND ADDITIONAL PRECAUTIONS AND RESTRICTIONS.

See the "ROUNDUP READY CROPS" section of this label or separately published Monsanto Supplemental Labeling for instructions for treating Roundup Ready crops.

**TYPES OF APPLICATIONS:** Chemical Fallow, Preplant Fallow Beds, Preplant, Preemergence, At-Planting, Hooded Sprayers in row middles. Shielded Sprayers in row-middles, and Post-Harvest treatments.

**GENERAL USE INSTRUCTIONS:** Apply this product during fallow intervals preceding planting, prior to planting or transplanting, at-planting, or preemergent to annual and perennial crops listed in this label, except where specifically limited. For any crop not listed in this label, applications must be made at least 30 days

prior to planting. Unless otherwise specified, weed control applications may be made according to the rates listed in the "ANNUAL WEEDS", "PERENNIAL WEEDS", and "WOODY BRUSH AND TREES RATE TABLES" in this label. Repeat applications may be made up to a maximum of 6.2 pounds per acre per year.

Post-directed hooded sprayers capable of preventing all crop contact with herbicide solutions may be used in mulched or unmulched row middles after crop establishment. Refer to the "SELECTIVE EQUIPMENT" section of this label for essential precautions when using hooded sprayers to avoid crop injury caused by leakage of spray mists or dripping onto crops. Crop injury is possible with these applications and shall be the sole responsibility of the applicator.

The maximum use rates stated throughout this product's labeling apply to this product combined with the use of all other herbicides containing glyphosate or sulfosate as the active ingredient, whether applied as mixtures or separately. Calculate the application rates and ensure that the total use of this and other glyphosate or sulfosate containing products does not exceed stated maximum use rate.

**GENERAL PRECAUTIONS, RESTRICTIONS:** Avoid contact of herbicide with foliage, green shoots or stems, bark, exposed roots (including those emerging from plastic mulch), or fruit of crops because severe injury or destruction may result. When making preemergence and at-planting applications, applications must be made before crop emergence to avoid severe crop injury. Broadcast applications made at emergence will result in injury or death to emerged seedlings. Apply before seed germination in coarse sandy soils to further minimize the risk of injury. Unless otherwise specified in this product's labeling, treatments with selective equipment must be made at least 14 days prior to harvest. Post-harvest or fallow applications must be made at least 30 days prior to planting any non-labeled crop. See "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for additional information.

In crops where spot treatments are allowed, do not treat more than 10 percent of the total field to be harvested. The crop receiving spray in treated area will be killed. Take care to avoid drift or spray outside the target area for the same reason.

For broadcast postemergent treatments, do not harvest or feed treated vegetation for 8 weeks following application, unless otherwise specified.

### Cereal and Grain Crops

**LABELED CROPS:** Barley, Buckwheat, Millet (pearl, proso), Oats, Rice, Rye, Quinoa, Teff, Teosinte, Triticale, Wheat (all types), Wild rice.

**PRECAUTIONS, RESTRICTIONS:** Do not treat rice fields or levees when field contains water.

**TYPES OF APPLICATIONS:** Those listed in Section B.1.0 plus the following: Red Rice Control Prior to Planting Rice, Spot Treatment (except Rice), preharvest (Feed Barley and Wheat only).

### Preplant, Preemergence and At-Planting

**USE INSTRUCTIONS:** This product may be applied before, during or after planting of cereal crops. Applications must be made prior to emergence of the crop.

### Red Rice Control Prior to Planting Rice

**USE INSTRUCTIONS:** Apply 1.2 pounds of this product in 5 to 10 gallons of water per acre. Flush fields prior to application to obtain uniform germination and stand of red rice. Make application when the majority of the red rice plants are in the 2-leaf stage and no more than 4 inches tall. Red rice plants with less than 2 true leaves may be only partially controlled.

**PRECAUTIONS, RESTRICTIONS:** Avoid spraying during low humidity conditions, as reduced control may result. Do not treat rice fields or levees when the fields contain floodwater. Do not re-flood treated fields for 8 days following application.

### Spot Treatment (except Rice)

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

**PRECAUTIONS, RESTRICTIONS:** Do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in the treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

### Post-Harvest

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

**PRECAUTIONS, RESTRICTIONS:** For any crop not listed on this label, applications must be made at least 30 days prior to planting the next crop. Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation.

### Wheat Tank Mix With AIM™ For Improved Symptoms In Pre-Plant Applications

**RECOMMENDATIONS:** This tank-mixture will significantly enhance the speed of symptomatology appearance on certain weeds when applied as a pre-plant treatment prior to wheat emergence. This mixture may be applied prior to planting or emergence. This mixture will not provide residual control of weeds that are unemerged at the time of treatment.

Combine 0.8 pounds of this product per acre and Aim (0.144 ounce per acre) in the spray tank in 10 to 20 gallons of water per acre. For best results, make applications to actively growing weeds. The addition of 2,4-D or dicamba is not specified. Follow instructions under "Tank Mixing Procedure" in section A.5.2 of this label.

Read and follow the Aim label for additional application instructions and precautions.

### For Use Only Within South Dakota. For Nonselective Control Of Listed Annual Weeds In Small Grain Cropping Systems

**RECOMMENDATIONS:** Refer to the label for rate recommendations and weeds

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controlled.

For ground applications, use 3 to 5 gallons of water per acre. For aerial applications, use 2 to 3 gallons of water per acre.

**ATTENTION**

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

Do not allow the herbicide solution to mist, drip, drift, or splash onto desirable vegetation since minute quantities of this herbicide can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions, including lesser wind velocities, will allow spray drift to occur. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) that are likely to drift. **AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.**

**NOTE:** To prevent injury to adjacent desirable vegetation, appropriate buffer zones must be maintained.

Adjust boom height on ground equipment to prevent streaked, overlapped or uneven applications. Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations that dispense spray as fine spray droplets.

In aerial applications, do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

Ensure uniform application. Use appropriate marking devices when applying herbicides by air.

Avoid spraying when weeds are subject to moisture stress, when dust is on foliage, or when straw canopy covers the weeds.

**For Use Only Within California. For Controlling Barnyardgrass (*Echinochloa Crus-Galli*) In Rice Using Renovation Treatments**

**Renovation Treatment**

**USE INSTRUCTIONS:** This product may be applied as a renovation treatment in rice crops to control barnyardgrass infestations using ground broadcast spray or hand-held equipment. Renovation is defined as herbicide treatment that will produce crop and weed destruction in an entire field or contiguous area treated within a field. Follow the application methods and specified treatment rates in this label.

**PRECAUTIONS, RESTRICTIONS:** The crop receiving spray in the treated area will be killed. Take care to avoid drift or spray outside target area for the same reason. The rice straw and stubble from the treated area, including a 25-foot buffer zone on all sides, shall not be used for grazing, animal bedding or any feed purposes.

No Aerial applications are permitted for rice renovation using this label.

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**Corn**

**TYPES OF CORN:** Field corn, Seed corn, Silage corn, Sweet corn and Popcorn.

**TYPES OF APPLICATIONS:** Those listed in Section B.1.0 plus the following: Spot Treatment, Preharvest. For Roundup Ready corn, see the "ROUNDUP READY CROPS" section of this label. Preplant, Preemergence and At-Planting

**USE INSTRUCTIONS:** This product may be applied alone or in a tank-mixture before, during or after planting corn. Applications must be made prior to emergence of the crop. When tank mixing, the product tank mixed must be registered for use on these sits.

**TANK MIXTURES:** Apply these tank mixtures in 10 to 20 gallons of water.

2,4-D	DISTINCT™	LARIAT®
ATRAZINE	DUALMAGNUM™	LASSO®/ALACHLOR
AXIOM™	DUAL II MAGNUM™	LINEXTM™/LOROXTM™
BALANCE™	EPIC™	MARKSMAN™
BANVELT™/CLARITY™	FRONTIER™ /OUTLOOK™	FULTIME™
MICRO-TECH®	BICEP MAGNUM™	
PROWL™	BICEP II MAGNUM™	
GUARDSMAN™/LEADOFF™	PYTHON™	BULLET®
HARNESS®	SIMAZINE	DEGREE®
HARNESS XTRA	TOPNOTCH™	DEGREEEXTRA®
HARNESS XTRA 5.6L		

For difficult-to-control annual weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 0.4 pounds per acre in these tank mixtures. For other labeled annual weeds, apply 0.6 to 0.8 pounds of this product per acre when weeds are less than 6 inches tall, and 0.8 to 1.2 pounds when weeds are over 6 inches tall. When using nitrogen solutions as the carrier, use rate may need to be increased for acceptable weed control.

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

For Southern states, do not apply in nitrogen solutions to tough-to-control grasses such as barnyardgrass, fall panicum, broadleaf signalgrass, annual ryegrass and any perennial weeds. The area covered by this recommendation includes from Route 50 South in Illinois and Indiana and the following states: Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, New Jersey, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia and West Virginia.

**Corn Tank Mix With AIM™ For Improved Symptoms In Pre-Plant Applications**

**RECOMMENDATIONS:** This tank-mixture will significantly enhance the speed of symptomatology appearance on certain weeds when applied as a pre-plant treatment prior to corn emergence. This mixture may be applied prior to planting or



emergence. This mixture will not provide residual control of weeds that are unemerged at the time of treatment.

Combine 0.8 pounds of this product per acre and Aim (0.144 ounce per acre) in the spray tank in 10 to 20 gallons of water per acre. For best results, make applications to actively growing weeds. The addition of 2,4-D or dicamba is not specified. Follow instructions under "Tank Mixing Procedure" in section A.5.2 of this label.

Read and follow the Aim label for additional application instructions and precautions.

### **Corn Tank Mix With RESOUCÉ® For Improved Symptoms In Pre-Plant Applications**

**RECOMMENDATIONS:** This tank-mixture will significantly enhance the speed of symptomatology appearance on certain weeds when applied as a pre-plant treatment prior to corn emergence. This mixture may be applied prior to planting or emergence. This mixture will not provide residual control of weeds that are unemerged at the time of treatment.

Combine 0.8 pounds of this product per acre and Resource (2.08 fluid ounce per acre) in the spray tank in 10 to 20 gallons of water per acre. For best results, make applications to actively growing weeds. The addition of 2,4-D or dicamba is not specified. Follow instructions under "Tank Mixing Procedure" in section A.5.2 of this label.

Read and follow the Resource label for additional application instructions and precautions

#### **Hooded Sprayers**

**USE INSTRUCTIONS:** This product may be used through hooded sprayers for weed control between the rows of corn. Only hooded sprayers that completely enclose the spray pattern may be used. See additional instruction for the use of hooded sprayers in the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label.

**PRECAUTIONS, RESTRICTIONS:** Corn must be at least 12 inches tall, measured without extending leaves. Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage. Such damage shall be the sole responsibility of the applicator. Do not apply more than 0.8 pounds of this product per acre for each application and no more than 2.4 pounds per acre per year for hooded sprayer applications.

#### **Spot Treatment**

**USE INSTRUCTIONS:** For spot treatments, apply this product prior to silking of corn.

**PRECAUTIONS, RESTRICTIONS:** Do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in the treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

### Preharvest

**USE INSTRUCTIONS:** Make applications at 35 percent grain moisture or less. Ensure that maximum kernel fill is complete and the corn is physiologically mature (black layer formed). For ground applications, apply up to 2.4 pounds of this product per acre. For aerial applications, apply up to 1.6 pounds of this product per acre.

**PRECAUTIONS, RESTRICTIONS:** Allow a minimum of 7 days between application and harvest. Preharvest application is not specified for corn grown for seed, as a reduction in germination or vigor may occur.

### Post-Harvest

**USE INSTRUCTIONS:** This product may be applied after harvest of corn. Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used provided the product tank mixed is registered for use on these sites.

**PRECAUTIONS, RESTRICTIONS:** Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation.

## For Control And Management Of Glyphosate Resistant Horse Weed (Marestail, *Conyza canadensis*)

### In Corn

#### Preplant, At-Planting, Preemergence

Apply a tank mixture of this product (0.8 pounds per acre) plus 2,4-D (0.5 pounds a.i. of per acre) before horseweed exceeds 6 inches in height. See the 2,4-D product label for time intervals that are required between application and planting.

Atrazine (1 to 2 pounds active ingredient per acre) may be included in the tank-mixture to provide residual control. Refer to the atrazine product label for specific use instructions.

### Cotton

**TYPES OF APPLICATIONS:** Those listed in Section B.1.0 plus the following: Selective Equipment, Spot Treatment, Preharvest.

For Roundup Ready cotton, see the "ROUNDUP READY CROPS" section of this label.

#### Preplant, Preemergence, and At-Planting

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

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### **Hooded Sprayer, Selective Equipment**

**USE INSTRUCTIONS:** This product may be applied through hooded sprayers, recirculating sprayers, or shielded applicators in cotton. Allow at least 7 days between application and harvest.

**PRECAUTIONS, RESTRICTIONS:** See the "SELECTIVE EQUIPMENT" part of the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for information on proper use and calibration of this equipment.

### **Spot Treatment**

**USE INSTRUCTIONS:** For spot treatments, apply this product prior to boll opening of cotton.

**PRECAUTIONS, RESTRICTIONS:** Do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

### **Preharvest**

**USE INSTRUCTIONS:** This product provides weed control and cotton regrowth inhibition when applied prior to harvest of cotton. For weed control, apply at rates given in the "ANNUAL WEEDS", "PERENNIAL WEEDS" and "WOODY BRUSH AND TREES RATE TABLES" sections of this label. For cotton regrowth inhibition, apply 0.4 to 1.6 pounds of this product per acre.

Up to 1.6 pounds of this product may be applied using either aerial or ground spray equipment. Apply after sufficient bolls have developed to produce the desired yield of cotton. Applications made prior to this time could affect maximum yield potential.

**TANK MIXTURES:** This product may be tank mixed with DEF™ 6, Folex™, Ginstar™, or Prep™ to provide additional enhancement of cotton leaf drop.

**PRECAUTIONS, RESTRICTIONS:** Allow a minimum of 7 days between application and harvest of cotton. Preharvest application is not specified for cotton grown for seed, as a reduction in germination or vigor may occur.

## **For Control And Management Of Glyphosate Resistant Horse Weed (*Marestail, Conyza Canadensis*)**

### **In Cotton**

#### **Preplant**

For control of horseweed, apply this product (0.8 pounds per acre) in a tank-mix with Clarity® (8 fluid ounces per acre). This application must be made 21 to 35 days before planting and before horseweed reaches 6 inches in height. In order to avoid crop injury, a minimum interval of 21 days during which there is at least 1 inch of cumulative rainfall must be observed between Clarity application and planting of cotton.

## Fallow Systems

**LABELED CROPS:** This product may be applied during the fallow period prior to planting or emergence of any crop on this label.

**TYPES OF APPLICATIONS:** Chemical Fallow, Preplant Fallow Beds, Aid-to-Tillage.

### Chemical Fallow

**USE INSTRUCTIONS:** This product may be applied during the fallow period prior to planting or emergence of any crop listed on this label. This product may be used as a substitute for tillage to control annual weeds in fallow fields. Also, broadcast or spot treatments will control or suppress many perennial weeds in fallow fields. Ground or aerial application equipment may be used. Tank mixtures with 2,4-D and dicamba may be used provided the product tank mixed is registered for use on these sites. Applications up to 1.6 pounds per acre may be made by aerial application in fallow sites where there is sufficient buffer to prevent injury due to drift onto adjacent crops.

**PRECAUTIONS, RESTRICTIONS:** For any crop not listed on this label, applications must be made at least 30 days prior to planting. Do not apply dicamba tank mixtures by air in California.

Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures. Some crop injury may occur if dicamba is applied within 45 days of planting.

### Preplant Fallow Beds

**USE INSTRUCTIONS:** This product may be applied to fallow beds prior to planting or emergence of any crop listed on this label. For any crop not listed on this label, applications must be made at least 30 days prior to planting. This product will control weeds listed in the "ANNUAL WEEDS", "PERENNIAL WEEDS", and "WOODY BRUSH AND TREES RATE TABLES" sections of this label.

**TANK MIXTURES:** In addition, 0.3 pounds of this product plus 2 to 3 fluid ounces of Goal™ 2XL per acre will control the following weeds with the maximum height or length indicated:

- 3 inches -- common cheeseweed, chickweed, groundsel
- 6 inches -- London rocket, shepherd's-purse.

0.4 pounds of this product plus 2 to 3 fluid ounces of Goal 2XL per acre will control the following weeds with the maximum height or length indicated:

- 6 inches -- common cheeseweed, groundsel, marestalk (*Coryza canadensis*)
- 12 inches -- chickweed, London rocket, shepherd's-purse.

### Aid-to-Tillage

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**USE INSTRUCTIONS:** This product may be used in conjunction with tillage practices in fallow systems or preplant to labeled crops to control downy brome, cheat, volunteer wheat, tansy mustard and foxtail. Apply 0.3 pounds of this product in 3 to 10 gallons of water per acre. Make applications before weeds are 6 inches in height. Application must be followed by conventional tillage practices no later than 15 days after treatment and before regrowth occurs. Allow at least 1 day after application before tillage.

**PRECAUTIONS, RESTRICTIONS:** Tank mixtures with residual herbicides may result in reduced performance.

**Grain Sorghum (Milo)**

**TYPES OF APPLICATIONS:** Those listed in Section B.1.0 plus the following: Spot Treatment, Preharvest.

**Preplant, Preemergence, At-Planting**

**USE INSTRUCTIONS:** This product may be applied alone or in tank-mixture before, during or after planting grain sorghum. Applications must be made prior to emergence of the crop.

**TANK MIXTURES:** Apply these tank mixtures in 10 to 20 gallons of water or 10 to 60 gallons of nitrogen solution per acre.

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|-----------------|------------|
| ATRAZINE        | LARIAT     |
| BICEP II MAGNUM | LASSO      |
| BULLET          | MICRO-TECH |
| DUAL II MAGNUM  |            |

For difficult-to-control annual weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 0.8 pounds per acre in these tank mixtures. For other labeled annual weeds, apply 0.6 to 0.8 pounds of this product per acre when weeds are less than 6 inches tall, and 0.8 to 1.2 pounds when weeds are over 6 inches tall. When using nitrogen solutions as the carrier, the use rate may need to be increased for acceptable weed control.

**Spot Treatment**

**USE INSTRUCTIONS:** This product may be applied as a spot treatment in grain sorghum. Make spot treatments before heading of milo.

**PRECAUTIONS, RESTRICTIONS:** For spot treatment, do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

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

**Hooded Sprayers**

**USE INSTRUCTIONS:** This product may be used through hooded sprayers for weed control between the rows of milo. Only hooded sprayers that completely enclose the spray pattern may be used. See additional instruction for the use of hooded sprayers in the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label.

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

**PRECAUTIONS, RESTRICTIONS:** Milo must be at least 12 inches tall, measured without extending leaves. Treat before milo sends tillers between the drill rows. If such tillers are contacted with the spray solution, the main plant may be killed. Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage. Such damage shall be the sole responsibility of the applicator. Do not graze or feed milo forage or fodder following applications of this product through hooded sprayers. Do not apply more than 0.8 pounds of this product per acre per application and no more than 2.3 pounds per acre per year for hooded sprayer applications.

#### Preharvest

**USE INSTRUCTIONS:** Make applications at 30 percent grain moisture or less.

**PRECAUTIONS, RESTRICTIONS:** Do not apply more than 1.2 pounds of this product per acre. As with other herbicides that cause sudden plant death, avoid preharvest applications of this product to milo infected with charcoal rot as lodging can occur. Allow a minimum of 7 days between application and harvest of sorghum. Preharvest application is not specified for sorghum grown for seed, as a reduction in germination or vigor may occur. The use of this product for preharvest grain sorghum (milo) is not registered in California.

#### Post-Harvest

**USE INSTRUCTIONS:** This product may be applied after harvest of grain sorghum. Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used provided the product tank mixed is registered for use on these sites.

This product may be applied to grain sorghum (milo) stubble following harvest to suppress or control regrowth. Apply 0.8 pounds of this product per acre for control, or 0.6 pounds of this product per acre for suppression.

**PRECAUTIONS, RESTRICTIONS:** Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation.

#### Herbs and Spices

**LABELED CROPS:** Allspice, Angelica, Star anise, Annatto (seed), Balm, Basil, Borage, Burnet, Camomile, Caper buds, Caraway, Black caraway, Cardamom, Cassia bark, Cassia buds, Catnip, Celery seed, Chervil (dried), Chive, Chinese

chive, Cinnamon, Clary, Clove buds, Coriander leaf (cilantro or chinese parsley), Coriander seed (cilantro), Costmary, Culantro (leaf), Culantro (seed), Cumin, Curry (leaf), Dill (dillweed), Dill (seed), Epazote, Fennel seed (common and Florence), Fenugreek, White ginger flower, Grains of paradise, Horehound, Hyssop, Juniper berry, Lavender, Lemongrass, Lovage (leaf and seed), Mace, Marigold, Marjoram (including oregano), Mexican oregano, Mioga flower, Mustard (seed), Nasturtium, Nutmeg, Parsley (dried), Pennyroyal, Pepper (black and white), Pepper leaves, Peppermint, Perilla, Poppy (seed), Rosemary, Rue, Saffron, Sage, Savory (summer and winter), Spearmint, Stevia leaves, Sweet bay, Tansy, Tarragon, Thyme, Vanilla, Wintergreen, Woodruff, Wormwood.

**TYPES OF APPLICATIONS:** Those listed in Section B.1.0 plus Spot Treatments (Peppermint and Spearmint only)

**PRECAUTIONS, RESTRICTIONS:** When applying this product prior to transplanting or direct-seeding crops into plastic mulch, care must be taken to remove residues of this product, which could cause crop injury, from the plastic prior to planting. Residues can be removed by a single 0.5-inch application of water, either by natural rainfall or via a sprinkler system.

#### **Spot Treatments (Peppermint and Spearmint only)**

**USE INSTRUCTIONS:** This product may be used as a spot treatment in spearmint and peppermint. Apply spot treatments on a spray-to-wet basis with hand-held equipment, such as backpack and knapsack sprayers, pump-up pressure sprayers, hand-guns, hand-wands or any other hand-held or motorized spray equipment used to direct the spray solution to a limited area. Weeds should be a minimum of 6 inches taller than the crop.

**PRECAUTIONS, RESTRICTIONS:** Allow at least 7 days between application and harvest. Further applications may be made in the same area at 30-day intervals. In spot treatment applications, no more than 10 percent of the total field area to be harvested should be treated at one time. The crop receiving spray in the treated area will be killed. Take care to avoid drift or spray outside the target area for this reason.

#### **Oil Seed Crops**

**LABELED CROPS:** Borage, Buffalo gourd (seed), Canola, Crambe, Flax, Jojoba, Lesquerella, Meadowfoam, Mustard (seed), Rape, Safflower, Sesame, Sunflower.

For Roundup Ready canola, see the "ROUNDUP READY CROPS" section of this label.

**TYPES OF APPLICATIONS:** Those listed in Section B.1.0.

**USE INSTRUCTIONS:** This product may be applied before, during or after planting oil seed crops. Broadcast applications must be made prior to emergence of the listed oil seed crops. Hooded sprayers may be used between the rows once the crop is established.

**TANK MIXTURES:** For sunflowers, a tank mixture with Prowl may be applied

before, during or after planting in conventional tillage systems, into a cover crop, established sod or in previous crop residue.

**PRECAUTIONS, RESTRICTIONS:** Do not apply more than 1.6 pounds of this product per acre on canola.. Do not apply more than 0.8 pounds of this product per acre for sunflowers as a single preplant or preemergent application per year. Do not feed or graze sunflower forage following application of this product.

**Soybeans**

**TYPES OF APPLICATIONS:** Those listed in Section B.1.0 plus the following: Spot Treatment, Preharvest, Selective Equipment.

For Roundup Ready soybeans, see the "ROUNDUP READY CROPS" section of this label.

**Preplant, Preemergence and At-Planting**

**USE INSTRUCTIONS:** This product may be applied alone or in a tank-mixture before, during or after planting soybeans. Applications must be made prior to emergence of the crop.

**TANK MIXTURES:** Apply these tank mixtures in 10 to 20 gallons of water per acre.

- |               |                    |              |
|---------------|--------------------|--------------|
| AIM™          | DUAL II MAGNUM     | MICRO-TECH   |
| AMPLIFY™      | FIRSTRATE™         | PROWL        |
| ASSURE II™    | FLEXSTAR™          | PURSUIT™     |
| AUTHORITY™    | FRONTIER™/OUTLOOK™ | PURSUIT PLUS |
| BOUNDARY™     | FUSION™            | REFLEX™      |
| CANOPY™       | GAUNTLET™          | SCEPTER™     |
| CANOPY XL™    | LASSO              |              |
|               | SENCORTM/LEXONE™   |              |
| COMMAND™      | LINEX™             | SQUADRON™    |
| COMMAND XTRA™ | LOROX/LINURON      | STEEL™       |
| DOMAIN™       | LOROX PLUS™        | VALOR™       |
| DUAL MAGNUM   |                    |              |

This product may be tank-mixed with 2,4-D or 2,4-DB provided the product tank mixed is registered for use on these sits. See the 2,4-D or 2,4-DB label for intervals between application and planting.

For difficult-to-control annual weeds such as fall panicum, barnyardgrass, crabgrass, shattercane and broadleaf signalgrass up to 2 inches tall, and Pennsylvania smartweed up to 6 inches tall, apply this product at 0.8 pounds per acre in these tank mixtures. For other labeled annual weeds, apply 0.6 to 0.8 pounds of this product per acre when weeds are less than 6 inches tall, and 0.8 to 1.2 pounds when weeds are over 6 inches tall.

**PRECAUTIONS, RESTRICTIONS:** Tank-mixtures with some of the above listed herbicides may result in reduced weed control due to antagonism. Read and carefully observe the cautionary statements and all other information appearing on



the product labels, supplemental labeling or fact sheets published separately for all herbicides used. Use according to the most restrictive directions for each product in the mixture.

**Spot Treatment**

**USE INSTRUCTIONS:** For spot treatments, apply this product prior to initial pod set in soybeans.

**PRECAUTIONS, RESTRICTIONS:** Do not treat more than 10 percent of the total field area to be harvested. The crop receiving spray in treated area will be killed. Take care to avoid drift or spray outside target area for the same reason.

**Preharvest**

**USE INSTRUCTIONS:** This product provides weed control when applied prior to harvest of soybeans.

Apply at rates given in the "ANNUAL WEEDS", "PERENNIAL WEEDS", and "WOODY BRUSH AND TREES RATE TABLES". This product may be applied using either aerial or ground spray equipment. Apply after pods have set and lost all green color. Care should be taken to avoid excessive seed shatter loss due to ground application equipment.

**PRECAUTIONS, RESTRICTIONS:** Do not apply more than 3.8 pounds per acre of this product for preharvest applications. Do not apply more than 1.6 pounds per acre of this product by air. Allow a minimum of 7 days between application and harvest of soybeans. Do not graze or harvest treated hay or fodder for livestock feed within 25 days of last preharvest application. (If the application rate is 0.8 pounds per acre or lower, the grazing restriction is reduced to 14 days after last preharvest application.) Preharvest application is not specified for soybeans grown for seed, as a reduction in germination or vigor may occur.

**Selective Equipment**

**USE INSTRUCTIONS:** This product may be applied through recirculating sprayers, shielded applicators, or hooded sprayers in soybeans. Allow at least 7 days between application and harvest.

**PRECAUTIONS, RESTRICTIONS:** See the "SELECTIVE EQUIPMENT" part of the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for information on proper use and calibration of this equipment.

**Soybean Tank Mix With AIM™ For Improved Symptoms In Pre-Plant Applications**

**RECOMMENDATIONS:** This tank-mixture will significantly enhance the speed of symptomatology appearance on certain weeds when applied as a pre-plant treatment prior to soybean emergence. This mixture may be applied prior to planting or emergence. This mixture will not provide residual control of weeds that are unemerged at the time of treatment.

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Combine 0.8 pounds of this product per acre and Aim (0.144 ounce per acre) in the spray tank in 10 to 20 gallons of water per acre. For best results, make applications to actively growing weeds. The addition of 2,4-D or dicamba is not specified. Follow instructions under "Tank Mixing Procedure" in section A.5.2 of this label.

**Soybean Tank Mix With RESOURCE® For Improved Symptoms In Pre-Plant Applications**

**RECOMMENDATIONS:** This tank-mixture will significantly enhance the speed of symptomatology appearance on certain weeds when applied as a pre-plant treatment prior to corn emergence. This mixture may be applied prior to planting or emergence. This mixture will not provide residual control of weeds that are unemerged at the time of treatment.

Combine 0.8 pounds of this product per acre and Resource (2.08 fluid ounce per acre) in the spray tank in 10 to 20 gallons of water per acre. For best results, make applications to actively growing weeds. The addition of 2,4-D or dicamba is not specified. Follow instructions under "Tank Mixing Procedure" in section A.5.2 of this label.

Read and follow the Resource label for additional application instructions and precautions

**For Control And Management Of Glyphosate Resistant Horse Weed (Marestail, *Conyza Canadensis*)**

**In Soybeans**

Apply a tank mixture of this product (0.8 pounds per acre) with 2,4-D (0.5 pounds a.i. per acre) before horseweed exceeds 6 inches in height. See the 2,4-D product label for time intervals that are required between application and planting. For areas where 2,4-D cannot be applied due to application restrictions or proximity to a sensitive crop, contact your local retailer.

**Sugarcane**

**TYPES OF APPLICATIONS:** Those listed in Section B.1.0 plus Spot Treatment.

**Preplant, Preemergence, At-Planting**

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

**PRECAUTIONS, RESTRICTIONS:** Do not apply to vegetation in or around ditches, canals or ponds containing water to be used for irrigation.

**Spot Treatment**

**USE INSTRUCTIONS:** This product may be applied as a spot treatment in sugarcane. For control of volunteer or diseased sugarcane, make a 0.85

solution of this product in water and spray-to-wet the foliage of vegetation to be controlled. Volunteer or diseased sugarcane should have at least 7 new leaves.

**PRECAUTIONS, RESTRICTIONS:** Avoid spray contact with healthy cane plants since severe damage or destruction may result. Do not feed or graze treated sugarcane foliage following application.

### Fallow Treatments

**USE INSTRUCTIONS:** This product may be used as a replacement for tillage in fields that are lying fallow between sugarcane crops. This product may also be used to remove the last stubble of ratoon cane. For removal of last stubble of ratoon cane, apply 2.9 to 3.8 pounds of this product in 10 to 40 gallons of water per acre to new growth having at least 7 new leaves. Allow 7 or more days after application before tillage. Ground or aerial application equipment may be used. Applications up to 2.3 pounds per acre may be made by aerial application in fallow sites where there is sufficient buffer to prevent injury due to drift onto adjacent crops. Tank mixtures with 2,4-D and dicamba may be used provided the product tank mixed is registered for use on these sites.

### Hooded Sprayers

**USE INSTRUCTIONS:** This product may be used through hooded sprayers for weed control between the rows of sugarcane. See the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for additional use instructions.

**PRECAUTIONS, RESTRICTIONS:** Do not allow treated weeds to come into contact with the crop. Droplets, mist, foam or splatter of the herbicide solution settling on the crop may result in discoloration, stunting or destruction. Such damage shall be the sole responsibility of the applicator.

### Vegetable Crops

**NOTE:** THIS "VEGETABLE CROPS" SECTION GIVES GENERAL DIRECTIONS THAT APPLY TO ALL LISTED VEGETABLE CROPS WITHIN SECTION B.1.10 GROUPED ALPHABETICALLY BELOW. SEE THE INDIVIDUAL CROP CATEGORIES FOR SPECIFIC INSTRUCTIONS, PREHARVEST INTERVALS, PRECAUTIONS AND RESTRICTIONS.

**TYPES OF APPLICATIONS:** Chemical Fallow, Preplant Fallow Beds, Preplant, Preemergence, Prior to Transplanting Vegetables, At-Planting, Hooded Sprayers in row-middles, Shielded Sprayers in row-middles, and Post-Harvest, Directed Applications (nonbearing ginseng).

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

Avoid contact of herbicide with foliage, green shoots or stems, bark, exposed roots (including those emerging from plastic mulch), or fruit of crops because severe injury or destruction may result. When making preemergence and at planting applications, applications must be made before crop emergence to avoid severe crop injury. Apply before seed germination in coarse sandy soils to further minimize the risk of injury. In crops with vines, hooded sprayer, shielded sprayer applications to row middles should be made prior to vine development otherwise severe injury or destruction may result. Unless otherwise specified in this product's labeling, treatments with selective equipment including hooded sprayers must be made at least 14 days prior to harvest. Post-harvest or fallow applications must be made at least 30 days prior to planting any non-labeled crop. See "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for additional information.

### Brassica Vegetables

**LABELED CROPS:** Broccoli, Chinese broccoli (gai lon), Broccoli raab (rapini), Brussels sprouts, Cabbage, Chinese cabbage (bok choy), Chinese cabbage (napa), Chinese mustard cabbage (gai choy), Cauliflower, Cavalo broccolo, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens.

### Bulb Vegetables

**LABELED CROPS:** Garlic, Great-headed garlic, Leek, Onion (dry bulb and green), Welsh onion, Shallot.

### Cucurbit Vegetables and fruits

**LABELED CROPS:** Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Edible gourd (includes hyotan, cucuzza, hechima, Chinese okra), Melons (all), *Momordica spp* (includes balsam apple, balsam pear, bittermelon, Chinese cucumber), Muskmelon (includes cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey ball melon, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon), Pumpkin, Summer squash (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Winter squash (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash), Watermelon.

**PRECAUTIONS, RESTRICTIONS:** For Cantaloupe, Casaba melon, Crenshaw melon, Cucumber, Gherkin, Gourds, Honeydew melon, Honey ball melon, Mango melon, Melons (all), Muskmelon, Persian melon, Pumpkin, Squash (summer, winter), and Watermelon, allow at least 3 days between application and planting.

### Leafy Vegetables

**LABELED CROPS:** Amaranth (Chinese spinach), Arugula (roquette), Beet greens, Cardoon, Celery, Chinese celery, Celtuce, Chaya, Chervil, Edible-leaved chrysanthemum, Garland Chrysanthemum, Corn salad, Cress (garden and upland), Dandelion, Dock (sorrel), Dokudami, Endive (escarole), Florence fennel, Gow kee, Lettuce (head and leaf), Orach, Parsley, Purslane (garden and winter), Radicchio

(red chicory), Rhubarb, Spinach, New Zealand spinach, Vine spinach, Swiss chard, Watercress (upland), Water spinach.

**PRECAUTIONS, RESTRICTIONS:** For Watercress, avoid applications within 3 days prior to seeding and during the period between seeding and emergence to minimize the risk of injury.

**Fruiting Vegetables**

**LABELED CROPS:** Eggplant, Groundcherry (*Physalis spp*), Pepino, Pepper (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo, Tomato.

**PRECAUTIONS, RESTRICTIONS:** For Eggplant, Ground cherry, Pepper (all), and Tomatillo, allow at least 3 days between application and planting. For Tomato, do not make hooded or shielded sprayer applications in row middles because of the potential for crop injury.

**Legume Vegetables (succulent or dried)**

**LABELED CROPS:** Bean (*Lupinus*: includes grain lupin, sweet lupin, white lupin, and white sweet lupin), Bean (*Phaseolus*: includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean). Bean (*Vicia*: includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean). Broad bean (fava), Chickpea (garbanzo). Guar, Jackbean, Lablab bean, Lentil, Pea (*Pisum*: includes dwarf pea, edible-podded pea, English pea, field pea, garden pea, green pea, snowpea, sugar snap pea), Pigeon pea, Soybean (immature seed), Sword bean.

**Root and Tuber Vegetables**

**LABELED CROPS:** Arracacha, Arrowroot, Chinese artichoke, Jerusalem artichoke, Beet (garden), Burdock, Canna, Carrot, Cassava (bitter and sweet), Celeriac, Chayote (root), Chervil (turnip-rooted), Chicory, Chufa, Dasheen (taro), Galangal, Ginger, Ginseng, Horseradish, Leren, Kava (turnip-rooted), Parsley (turnip rooted), Parsnip, Potato, Radish, Oriental radish, Rutabaga, Salsify, Black salsify, Spanish salsify, Skirret, Sweet potato, Tamer, Turmeric, Turnip, Wasabi, Yacon, Yam bean, True yam.

**Directed applications (Non-Bearing Ginseng Only)**

**USE INSTRUCTIONS:** This product may be used for general weed control in established non-bearing ginseng. Applications maybe made with boom equipment, CDA, shielded sprayers, hand-held and high volume wands, lances, and orchard guns.

**PRECAUTIONS, RESTRICTIONS:** Direct applications so that there is no contact of this product with the ginseng plant. Applications must be made at least one year prior to harvest.

## Miscellaneous Crops

**LABELED CROPS:** Aloe vera, Asparagus, Bamboo shoots, Globe artichoke, Okra, Peanut (ground nut), Pineapple, Strawberry, Sugar beet.

**TYPES OF APPLICATIONS:** Those listed in Section B.1.0 plus the following: General Weed Control, Site Preparation, Spot Treatment (Asparagus)

For Roundup Ready sugar beets, see the "ROUNDUP READY CROPS" section of this label.

**PRECAUTIONS, RESTRICTIONS:** Avoid contact of herbicide with foliage, green shoots or stems, bark, exposed roots (including those emerging from plastic mulch), or fruit of crops because severe injury or destruction may result. When making preemergence and at planting applications, applications must be made before crop emergence to avoid severe crop injury. Apply before seed germination in coarse sandy soils to further minimize the risk of injury. In crops with vines, hooded sprayer and shielded sprayer to row middles should be made prior to vine development otherwise severe injury or destruction may result. Unless otherwise specified in this product's labeling, treatments with selective equipment including hooded sprayers must be made at least 14 days prior to harvest. Post-harvest or fallow applications must be made at least 30 days prior to planting any non-labeled crop. See "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for additional information.

### General weed control, site preparation

**USE INSTRUCTIONS:** This product may be applied for general weed control or for site preparation prior to planting or transplanting crops listed in this section.

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

Do not apply within a week before the first asparagus spears emerge. Do not feed or graze treated pineapple forage following application.

### Spot treatment (Asparagus)

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

**PRECAUTIONS, RESTRICTIONS:** Do not treat more than 10 percent of the total field area to be harvested. Do not harvest within 5 days of treatment.

### Post-harvest (Asparagus)

**USE INSTRUCTIONS:** This product may be applied after the last harvest and all spears have been removed. If spears are allowed to regrow, delay application until ferns have developed. Delayed treatments should be applied as a directed

or shielded spray in order to avoid contact of the spray with ferns, stems or spears.

**PRECAUTIONS, RESTRICTIONS:** Direct contact of the spray with the asparagus may result in serious crop injury. Select and use specified types of spray equipment for postemergence post-harvest applications. A directed spray is any application where the spray pattern is aligned in such a way as to avoid direct contact of the spray with the crop. A shielded spray is any application where a physical barrier is positioned and maintained between the spray and the crop to prevent contact of spray with the crop.

### **TREE, VINE, AND SHRUB CROPS (Alphabetical)**

**NOTE:** THIS SECTION GIVES GENERAL DIRECTIONS THAT APPLY TO ALL LISTED TREE, VINE, AND SHRUB CROPS WITHIN SECTION B.2 GROUPED ALPHABETICALLY BELOW. SEE THE INDIVIDUAL CROP CATEGORIES FOR SPECIFIC INSTRUCTIONS, PREHARVEST INTERVALS, PRECAUTIONS AND RESTRICTIONS.

**TYPES OF APPLICATIONS:** Preplant (Site Preparation) Broadcast Sprays. General Weed Control, Middles (between rows of trees, vines or bushes), Strips (within rows of trees, vines or bushes), Selective Equipment (shielded sprayers), Directed Sprays, Spot Treatments, Perennial Grass Suppression, Cut Stump.

Applications may be made with boom equipment, CDA equipment, shielded sprayers, hand-held and high-volume wands, lances, orchard guns, except as directed.

**GENERAL USE INSTRUCTIONS:** This product may be applied in middles (between rows of trees or vines), strips (within rows of trees or vines), and for general weed control or perennial grass suppression in established tree fruit and nut groves, orchards, berries, and vineyards. It may also be used for site preparation prior to planting or transplanting these crops. Apply 0.4 to 3.8 pounds per acre according to the "ANNUAL WEEDS" and "PERENNIAL WEEDS RATE TABLES" sections of this label. Utilize rates at the higher end of the specified rate range when weeds are stressed, growing in dense populations or are greater than 12 inches tall. Repeat applications may be made up to a maximum of 8.2 pounds per acre per year.

The maximum use rates stated throughout this product's labeling apply to this product combined with the use of all other herbicides containing glyphosate or sulfosate as the active ingredient, whether applied as mixtures or separately. Calculate the application rates and ensure that the total use of this and other glyphosate or sulfosate containing products does not exceed stated maximum use rate.

**GENERAL PRECAUTIONS, RESTRICTIONS:** Extreme care must be exercised to avoid contact of herbicide solution, spray, drift or mist with foliage or green bark of trunk, branches, suckers, fruit or other parts of trees, canes and vines. Avoid applications when recent pruning wounds or other mechanical injury has occurred. Contact of this product with other than matured brown bark can result in serious crop damage or destruction. Only shielded or directed sprayers may be used in crops with potential for crop contact, and then only where there is sufficient clearance. For applications in strips (within rows of trees), only selective equipment (directed sprays,

hooded sprayers, or shielded applicators) should be used to minimize the potential for leakage or drift of herbicide sprays onto crop. For berry crops, hooded or shielded sprayers must be fully enclosed including top, sides, front and back. Only shielded applicators capable of preventing all contact with crop may be used. See "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for additional directions and precautions.

Allow a minimum of 3 days between application and transplanting.

**Middles (between rows)**

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

**TANK MIXTURES:** A tank mixture of this product plus Goal 2XL may be used for annual weeds in middles between rows of citrus crops, tree fruits, tree nuts and vine crops. This mixture is specified when weeds are stressed or growing in dense populations. 0.4 to 0.8 pounds per acre of this product plus 3 to 12 fluid ounces per acre of Goal 2XL will control annual weeds with a maximum height or diameter of 6 inches, including crabgrass, common groundsel, junglerice, common lambsquarters, redroot pigweed, London rocket, common ryegrass, shepherd's-purse, annual sowthistle, filaree (suppression), horseweed/marestail, stinging nettle and common purslane (suppression). 0.4 to 0.8 pounds per acre of this product plus 3 to 12 fluid ounces per acre of Goal 2XL will control common cheeseweed (malva) or hairy fleabane with a maximum height or diameter of 3 inches.

**Strips (in rows)**

**TANK MIXTURES:** This product may be applied in rows of tree or vine crops in tank mixtures with the following products:

- |                     |              |
|---------------------|--------------|
| DEVIRINOL™ 50 DF    | SIMAZINE 4L  |
| DIREX™ 4L           | SIMAZINE 80W |
| GOAL 2XL            | SIM-TROL™ 4L |
| KARMEX DF           | SOLICAM™ DF  |
| KROVAR I            | SURFLAN™ AS  |
| PROWL               | SURFLAN 75W  |
| PRINCEP CALIBER™ 90 |              |

Do not apply these tank mixtures in Puerto Rico.

Refer to the individual product labels for specific crops, rates, geographic restrictions and precautionary statements.

**Perennial Grass Suppression**

This product will suppress perennial grasses such as bahiagrass, Bermudagrass, tall fescue, orchardgrass, Kentucky bluegrass, and quackgrass that are grown as ground covers in tree and vine crops.



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For suppression of tall fescue, fine fescue, orchardgrass and quackgrass, apply 0.15 pounds of this product in 10 to 20 gallons of water per acre.

For suppression of Kentucky bluegrass covers, apply 0.15 pounds of this product per acre.

For best results, mow cool season grass covers in the spring to even their height and apply this product 3 to 4 days after mowing.

For suppression of vegetative growth and seedhead inhibition of bahiagrass for approximately 45 days, apply 0.15 pounds of this product in 10 to 25 gallons of water per acre. Apply 1 to 2 weeks after full green-up or after mowing to a uniform height of 3 to 4 inches. This application must be made prior to seedhead emergence.

For suppression up to 120 days, apply 0.1 pounds of this product per acre, followed by an application of 0.07 to 0.1 pounds per acre about 45 days later. Make no more than 2 applications per year.

For burndown of Bermudagrass, apply 0.8 to 1.6 pounds of this product in 3 to 20 gallons of water per acre. Use this treatment only if reduction of the Bermudagrass stand can be tolerated. When burndown is required prior to harvest, allow at least 21 days to ensure sufficient time for burndown to occur.

For suppression of Bermudagrass, apply 0.15 to 0.4 pounds of this product per acre east of the Rocky Mountains and 0.4 pounds of this product per acre west of the Rocky Mountains. Apply in a total spray volume of 3 to 20 gallons per acre, no sooner than 1 to 2 weeks after full green-up. If the Bermudagrass is mowed prior to application, maintain a minimum of 3 inches in height. Sequential applications may be made when regrowth occurs and Bermudagrass injury and stand reduction can be tolerated. East of the Rocky Mountains, rates of 0.15 to 0.3 pounds of this product per acre should be used in shaded conditions or where a lesser degree of suppression is desired.

### Berry Crops

**LABELED CROPS:** Blackberry (including bingleberry, black satin berry, boysenberry, Cherokee blackberry, chesterberry, Cheyenne blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, Himalayaberry, hullberry, juneberry, lavacaberry, lowberry, lucretiaberry, marionberry, nectarberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, and youngberry), Blueberry, Cranberry, Currant, Elderberry, Gooseberry, Huckleberry, Loganberry, Raspberry (black, red), Salal.

**TYPES OF APPLICATIONS:** Those listed in Section B.2.0 plus Spot Treatment in Cranberry Production and Post Harvest Treatments in Cranberry Production.

**PRECAUTIONS, RESTRICTIONS:** To avoid damage, herbicide sprays must not be allowed to contact desirable vegetation, including green shoots, canes, or foliage. Allow a minimum of 30 days between last application and harvest in cranberries. Allow a minimum of 14 days between last application and harvest in other berry crops. Do not make directed sprays within the cranberry bush areas prior to berry harvest.

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### Spot Treatment in Cranberry Production

**USE INSTRUCTIONS:** Spot treatments may be used to control weeds growing in dry ditches (interior and perimeter) of cranberry production areas. Appropriate application equipment listed under "APPLICATION EQUIPMENT AND TECHNIQUES" in this label may be used. Drop water level to remove standing water in ditches prior to application. Spray to wet vegetation, not to run-off.

**PRECAUTIONS, RESTRICTIONS:** For treatments after draw down of water in dry ditches, allow 2 or more days after treatment before reintroduction of water to achieve maximum weed control. Apply this product within 1 day after draw down to ensure application to actively growing weeds. Allow a minimum of 30 days between last application and harvest of cranberries. Do not apply this material through the irrigation system. Do not make applications by air. Do not apply directly to water. Use nozzles that emit medium- to large-sized droplets to minimize drift in order to avoid crop injury.

### Post-Harvest Treatments in Cranberry Production

**USE INSTRUCTIONS:** Application of this product may be made after the harvest of cranberries to control weeds growing within the field. Best results will be obtained if applications are made to vines that appear dormant (after they have turned red). Appropriate application equipment listed under "APPLICATION EQUIPMENT AND TECHNIQUES" in this label may be used. Spray to wet vegetation, not to run-off. If using hand-held boom sprayers, apply 1.6 to 3.1 pounds of this product per acre.

**PRECAUTIONS, RESTRICTIONS:** Make applications only after cranberries have been harvested. Do not treat more than 10 percent of the total bog. Allow a minimum of 6 months after last application and next harvest of cranberries. Do not apply this product through the irrigation system. Do not make applications by air. Do not apply directly to water. Even though vines appear dormant, contact of the herbicide solution with desirable vegetation may result in damage or severe plant injury. Cranberry plants that are directly sprayed may be killed.

### Citrus

**LABELED CROPS:** Calamondin, Chironja, Citron, Citrus Hybrids, Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (all), Pummelo, Satsuma Mandarin, Tangelo (ugli), Tangor.

**TYPES OF APPLICATIONS:** Those listed in Section B.2.0.

**USE INSTRUCTIONS (The recommendations below pertain to applications in Florida and Texas):** For burndown or control of the weeds listed below, apply the specified rates of this product in 3 to 30 gallons of water per acre. Where weed foliage is dense, use 10 to 30 gallons of water per acre.

For goatweed, apply 1.6 to 2.3 pounds of this product per acre. Apply in 20 to 30 gallons of water per acre when plants are actively growing. Use 1.6 pounds per acre when plants are less than 8 inches tall and 2.3 pounds per acre when plants

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are greater than 8 inches tall. If goatweed is greater than 8 inches tall, the addition of Krovar™ I or Karmex™ may improve control. Refer to the individual product labels for specific crops, rates, geographic restrictions and precautionary statements.

**Perennial weeds:**

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

WEED SPECIES	(GLY N GO) (This product) Rate Per Acre			
	0.8 LBS	1.5 LBS	2.3 LBS	3.8 LBS
Bermudagrass	B	--	PC	PC
Guineagrass				
Texas and Florida Ridge	B	C	C	C
Florida Flatwoods	--	B	C	C
Paragrass	B	C	C	C
Torpedograss	S	--	PC	C

**PRECAUTIONS, RESTRICTIONS:** Allow a minimum of 1 day between last application and harvest in citrus crops. For citron groves, apply as directed sprays only.

**Miscellaneous Tree Food Crops**

**LABELED CROPS:** Cactus (fruit and pads), Palm (heart, leaves), Palm (oil).

**TYPES OF APPLICATIONS:** Those listed in Section B.2.0.

**Non-Food Tree Crops**

**LABELED CROPS:** Pine, Poplar, Eucalyptus, Christmas trees, Other non-food tree crops.

**TYPES OF APPLICATIONS:** Those listed in Section B.2.0.

**Directed Sprays, Spot Treatment**

**USE INSTRUCTIONS:** This product may be used as a post-directed spray and spot treatment around established poplar, eucalyptus, Christmas trees and other non-food tree crops.

**PRECAUTIONS, RESTRICTIONS:** Care must be exercised to avoid contact of spray, drift or mist with foliage or green bark of established Christmas trees and other pine trees. Desirable plants may be protected from the spray solution by using shields or coverings made of cardboard or other impermeable material. THIS PRODUCT IS NOT SPECIFIED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN CHRISTMAS TREES AND OTHER PINE TREES.

**Site Preparation**

**USE INSTRUCTIONS:** This product may be used prior to planting Christmas trees.

**PRECAUTIONS, RESTRICTIONS:** Precautions should be taken to protect nontarget plants during site preparation applications.

**Pome Fruit**

**LABELED CROPS:** Apple, Crabapple, Loquat, Mayhaw, Pear (including oriental pear), Quince.

**TYPES OF APPLICATIONS:** Those listed in Section B.2.0.

**PRECAUTIONS, RESTRICTIONS:** Allow a minimum of 1 day between last application and harvest in pome crops.

**Stone Fruit**

**LABELED CROPS:** Apricot, Cherry (sweet, tart), Nectarine, Olive, Peach, Plum/Prune (all types), Plumcot.

**TYPES OF APPLICATIONS:** Those listed in Section B.2.0.

**PRECAUTIONS, RESTRICTIONS:** Allow a minimum of 17 days between last application and harvest in stone fruit crops. For olive groves, apply as directed sprays only.

**Restrictions on Application Equipment**

For cherries, any application equipment listed in Section B.2.0 may be used in all states.

Any application equipment listed in Section B.2.0 may be used in apricots, nectarines, peaches and plums/prunes growing in Arizona, California, Colorado, Idaho, Kansas, Kentucky, New Jersey, North Dakota, Oklahoma, Oregon, Texas, Utah and Washington, except for peaches grown in the states specified in the following paragraph.

For PEACHES grown in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina and Tennessee only, apply with a shielded boom sprayer, which prevents any contact of this product with the foliage or bark of trees. Apply no later than 90 days after first bloom. Applications made after this time may result in severe damage. Remove suckers and low-hanging limbs at least 10 days prior to application. Avoid applications near trees with recent pruning wounds or other mechanical injury. Apply only near trees that have been planted in the orchard for 2 or more years. **EXTREME CARE MUST BE TAKEN TO ENSURE NO PART OF THE PEACH TREE IS CONTACTED.**

**Tree Nuts**

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**LABELED CROPS:** Almond, Beechnut, Betelnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Coconut, Filbert (hazelnut), Hickory nut, Macadamia, Pecán, Pine nut, Pistachio, Walnut (black, English)

**TYPES OF APPLICATIONS:** Those listed in Section B.2.0.

**PRECAUTIONS, RESTRICTIONS:** Allow a minimum of 3 days between last application and harvest of tree nuts, except coconut. Allow 14 days between application and harvest in coconut.

**Tropical and Subtropical Trees and Fruits**

**LABELED CROPS:** Ambarella, Atemoya, Avocado, Banana, Barbados cherry (acerola), Biriba, Blimbe, Breadfruit, Cacao (cocoa) bean, Canistel, Carambola (starfruit), Cherimoya, Coffee, Custard apple, Dates, Durian, Feijoa, Figs, Governor's plum, Guava, Ilama, Imbe, Imbu, Jaboticaba, Jackfruit, Longan, Lychee, Mamey apple, Mango, Mangosteen, Marmaladebox (genip), Mountain papaya, Papaya, Pawpaw, Plantain, Persimmon, Pomegranate, Pulasan, Rambutan, Rose apple, Sapodilla, Sapote (black, mamey, white), Spanish lime, Soursop, Star apple, Sugar apple, Surinam cherry, Tamarind, Tea, Ti (roots and leaves), Wax jambu.

**TYPES OF APPLICATIONS:** Those listed in Section B.2.0 plus.

**PRECAUTIONS, RESTRICTIONS:** Allow a minimum of 1 day between last application and harvest in banana, guava, papaya, and plantain crops. Allow a minimum of 14 days between last application and harvest for any other tropical or subtropical tree fruit. Allow a minimum of 28 days between last application and harvest in coffee crops. In coffee and banana, delay applications 3 months after transplanting to allow the new coffee or banana plant to become established.

**Vine Crops**

**LABELED CROPS:** Grapes (raisin, table, wine) Hops, Kiwi, Passion fruit.

**TYPES OF APPLICATIONS:** Those listed in Section B.2.0.

**USE INSTRUCTIONS:** Applications should not be made when green shoots, canes or foliage are in the spray zone.

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

**PRECAUTIONS, RESTRICTIONS:** Allow a minimum of 14 days between last application and harvest in vine crops. Do not use selective equipment in kiwi.

**PASTURE GRASSES, FORAGE LEGUMES AND RANGELANDS**

**GENERAL USE INSTRUCTIONS:** This product may be applied to turf or pasture grasses, forage legumes, and rangelands for weed control as directed below. Apply

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0.3 to 3.8 pounds per acre according to the "ANNUAL WEEDS", "PERENNIAL WEEDS", and "WOODY BRUSH AND TREES RATE TABLES".

**GENERAL PRECAUTIONS, RESTRICTIONS:** Follow the specific limitations below with regard to application. methods, timing, treatment rates, and post-application intervals. All applications must be made at least 30-days before planting any crop that is not specified for treatment in this label.

**Alfalfa, Clover, and Other Forage Legumes**

**LABELED CROPS:** Alfalfa, Clover, Kenaf, Kudzu, Lespedeza, Leucaena, Lupin, Sainfoin, Trefoil, Velvet bean, Vetch (all types).

**TYPES OF APPLICATIONS:** Preplant, Preemergence, At-Planting, Spot Treatment, Renovation, Preharvest (except Kenaf and Leucaena).

**Preplant, Preemergence and At-Planting**

**USE INSTRUCTIONS:** This product may be applied before, during or after planting crops listed in this section. Applications must be made prior to emergence of the crop.

**PRECAUTIONS, RESTRICTIONS:** Remove domestic livestock before application. The crop may be fed or grazed as soon as it reaches sufficient maturity.

**Preharvest (except Kenaf and Leucaena)**

**USE INSTRUCTIONS:** This product may be used in declining stands or any stand where severe crop injury or destruction is acceptable. This product will control annual and perennial weeds, including quackgrass, when applied prior to crop harvest. Applications may be made at any time of the year. For control of quackgrass, apply in the spring, late summer or fall when quackgrass is actively growing. Treatments for quackgrass must be followed by deep tillage for complete control.

**PRECAUTIONS, RESTRICTIONS:** Make only one application to an existing crop stand per year. The treated crop and weeds can be harvested and fed to livestock according to the intervals below.

	<b>Single Maximum Application Rate</b>	<b>Minimum Interval between application and harvest/grazing</b>
Alfalfa	44 fluid ounces	36 hours
All other labeled legumes above	32 fluid ounces	3 days

This application may destroy an alfalfa stand and may severely injure or destroy other labeled crops such as clover. Preharvest application is not specified for alfalfa grown for seed, as a reduction in germination or vigor may occur.

**Spot Treatment**

**USE INSTRUCTIONS:** This product may be applied as a spot treatment. Applications may be made in the same area at 30-day intervals.

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**PRECAUTIONS, RESTRICTIONS:** For spot treatment, apply in areas where the movement of domestic livestock can be controlled. No more than 10 percent of the total field area should be treated at one time. Remove domestic livestock before application and wait 3 days after application before grazing livestock or harvesting.

**Renovation**

**USE INSTRUCTIONS:** This product may be applied as a broadcast spray to renovate existing stands of alfalfa, clover, and other labeled forage legumes. If the crop is to be grazed or harvested for feed, use up to 1.6 pounds per acre in alfalfa and up to 1.2 pounds per acre in other labeled legumes. For complete removal of established stands of clover, it may be necessary to use the higher treatment rates listed in the "PERENNIAL WEEDS RATE TABLE".

When treatment rates of 1.6 pounds per acre for alfalfa or 1.2 pounds per acre for other forage legumes are used, remove domestic livestock before application and wait 3 days after application before reintroduction. If treatment rates above these levels are necessary, do not graze or harvest treated foliage for livestock feed. Crops listed for treatment in this label may be planted into the treated area at any time; for other crops, wait 30 days between application and planting.

**For Use in Dormant Alfalfa**

**USE INSTRUCTIONS:** This product will control or suppress many weeds, including quackgrass, downy brome and cheatgrass in dormant alfalfa.

Apply 0.2 to 0.3 pounds per acre of this product. Apply in the spring to alfalfa that is dormant. Applications should be made after spring temperatures have warmed enough to encourage resumption of weed growth, but prior to initiation of trifoliolate leaf expansion of the alfalfa. Applications made after expansion of the first trifoliolate leaf of the alfalfa will cause growth reduction and reduced crop yield.

**PRECAUTIONS, RESTRICTIONS:** Do not use this product where a slight yield reduction in the first cutting of alfalfa cannot be tolerated. Do not make more than one application per year.

Allow 36 hours after application before grazing livestock or harvesting.

Slight discoloration of the alfalfa may occur, but the alfalfa will regreen and regrow under moist soil conditions as effects of this product wear off.

Any crop injury is the sole responsibility of the applicator.

**Conservation Reserve Program (CRP)**

**TYPES OF APPLICATIONS:** Renovation (rotating out of CRP), Site Preparation, Postemergence Weed Control in Dormant CRP Grasses.

**Renovation (Rotating out of CRP), Site Preparation**

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**USE INSTRUCTIONS:** This product may be used to prepare CRP land for crop production. Refer to Federal, state or local use guides for CRP renovation recommendations. For any crop not listed for treatment in this product's label, applications must be made at least 30 days prior to planting.

**Postemergence Weed Control in Dormant CRP Grasses**

**USE INSTRUCTIONS:** This product may be used to suppress competitive growth and seed production of undesirable vegetation in CRP acres. Such applications may be made as a broadcast or spot treatment to dormant CRP grasses. For selective applications with broadcast spray equipment, apply 0.3 to 0.4 pounds of this product per acre in early spring before desirable CRP grasses, such as crested and tall wheatgrass, break dormancy and initiate green growth. Late fall applications can be made after desirable perennial grasses have reached dormancy.

**PRECAUTIONS, RESTRICTIONS:** Some stunting of CRP perennial grasses will occur if broadcast applications are made when plants are not dormant. No waiting period is required between application and grazing or harvesting for feed. Do not apply more than 1.2 pounds per acre per year onto CRP grasses.

**Grass Seed Production**

**LABELED CROPS:** Any grass (Gramineae family) except Corn, Sorghum, Sugarcane and those listed in this product's label under "CEREAL CROPS".

**TYPES OF APPLICATIONS:** Preplant, Preemergence, At-Planting, Renovation, Site Preparation, Shielded Sprayers, Spot Treatments, Creating Rows in Annual Ryegrass.

**Preplant, Preemergence, At-Planting, Renovation, Site Preparation**

**USE INSTRUCTIONS:** This product controls most existing vegetation prior to renovating turf or forage grass seed areas or establishing turf grass grown for sod. Make applications before, during, or after planting or for renovation. For maximum control of existing vegetation, delay planting to determine any regrowth from escaped underground plant parts occurs. Where existing vegetation is growing under mowed turfgrass management, apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the spray. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses, such as Bermudagrass, summer or fall applications provide best control. Broadcast equipment may be used to control sod remnants or other unwanted vegetation after sod is harvested.

**PRECAUTIONS, RESTRICTIONS:** Do not disturb soil or underground plant parts before treatment. Tillage or renovation techniques such as vertical mowing, coring or slicing should be delayed for 7 days after application to allow proper translocation into underground plant parts. If application rates total 2.3 pounds per acre or less, no waiting period between treatment and feeding or livestock grazing is required. If the rate is greater than 2.3 pounds per acre, remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting. For any crop not listed for treatment in this product's label booklet, applications must be made at least 30 days prior to planting. Applications must be made prior to the emergence of the crop to avoid crop injury.



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### Shielded sprayers

**USE INSTRUCTIONS:** Apply 0.8 to 2.3 of this product in 10 to 20 gallons of water per acre to control weeds between grass seed rows. Uniform planting in straight rows aid in shielded sprayer applications. Best results are obtained when the grass seed crop is small enough to easily pass by the protective shields. For additional instructions, see "Hooded and Shielded Applicators" in the "SELECTIVE EQUIPMENT" section of this label.

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

### Spot treatments

**USE INSTRUCTIONS:** Use a 0.85 percent solution.

**PRECAUTIONS, RESTRICTIONS:** Apply this product prior to heading of grasses grown for seed. The crop receiving the spray in the treated area will be killed. Take care to avoid drift or spray outside the target area for the same reason. Hand-held equipment may be used to control sod remnants or other unwanted vegetation after sod is harvested.

### Creating Rows in Annual Ryegrass

**USE INSTRUCTIONS:** Use 0.4 to 0.8 pounds of this product per acre. Use the higher rate when the ryegrass is greater than 6 inches tall. Best results are obtained when applications are made before the ryegrass reaches 6 inches in height.

**PRECAUTIONS, RESTRICTIONS:** Set nozzle heights to allow the establishment of the desired row spacing while preventing spray droplets, spray fines, or drift to contact the ryegrass plants not treated. Use of low-pressure nozzles, or drop nozzles designed to target the application over a narrow band are specified.

Grower assumes all responsibility for crop losses from misapplication.

### Pastures

**LABELED CROPS:** Any grass (Gramineae family) except Corn, Sorghum, Sugarcane and those listed in this product's label under "CEREAL CROPS". Including Bahiagrass, Bermudagrass, Bluegrass, Brome, Fescue, Guineagrass, Kikuya grass, Orchardgrass, Pangola grass, Ryegrass, Timothy, Wheatgrass.

**TYPES OF APPLICATIONS:** Preplant, Preemergence, Spot Treatment, Pasture renovation, Postemergent Weed Control (Broadcast Treatments).

### Preplant, Preemergence and Pasture Renovation

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

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**PRECAUTIONS, RESTRICTIONS:** If application rates total 2.3 pounds per acre or less, no waiting period between treatment and feeding of livestock grazing is required. If the rate is greater than 2.3 pounds per acre, remove domestic livestock before application and wait 8 weeks after application before grazing or harvesting. Crops listed for treatment in the label booklet may be planted into the treated area at any time; for other crops, wait 30 days between application and planting.

**Spot Treatment**

**USE INSTRUCTIONS:** This product may be applied as a spot treatment in pastures. Applications may be made in the same area at 30-day intervals.

**PRECAUTIONS, RESTRICTIONS:** For spot treatments methods using rates of 2.3 pounds per acre or less, the entire field or any portion of it may be treated. When spot treatments are made using rates above 2.3 pounds per acre, no more than 10 percent of the total pasture may be treated at any one time. To achieve maximum performance, remove domestic livestock before application and wait 7 days after application before grazing livestock or harvesting.

**Postemergent Weed Control (Broadcast Treatments)**

**USE INSTRUCTIONS:** This product may be used to suppress competitive growth and seed production of annual weeds and undesirable vegetation in pastures. For selective applications with broadcast spray equipment, apply 0.3 to 0.4 pounds of this product per acre in early spring before desirable perennial grasses break dormancy and initiate green growth. Late fall applications can be made after desirable perennial grasses have reached dormancy.

**PRECAUTIONS, RESTRICTIONS:** Some stunting of perennial grasses will occur if broadcast applications are made when plants are not dormant. No waiting period is required between application and grazing or harvesting for feed. Use of higher application rates will cause stand reductions. Do not apply more than 2.3 pounds per acre per year onto pasture grasses except for renovation uses (see instructions above). If replanting is needed due to severe stand reduction, applications must be made at least 30 days prior to planting any crop not listed for treatment in this product's label.

**For The Control Of Annual Weeds In Coastal Bermudagrass Pastures Prior To Spring Growth Or Immediately After First Cutting**

**USE INSTRUCTIONS:** This product may be applied at 0.4 pounds per acre to control the weeds listed below and most other winter annual grass and broadleaf weeds in established coastal Bermudagrass pastures.

- |                        |                   |
|------------------------|-------------------|
| Annual bluegrass       | Oats              |
| Cheat                  | Ryegrass, Italian |
| Crabgrass              | Sandbur, field    |
| Henbit                 | Sunflower         |
| Johnsongrass, seedling | Wheat             |
| Little barley          | Wild mustard      |

**Applications Prior To Spring Growth**

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**USE INSTRUCTIONS:** Apply this product in the late winter or early spring but before new coastal Bermudagrass growth begins in the spring. Applications to new growth can damage the Bermudagrass.

**PRECAUTIONS, RESTRICTIONS:** Remove domestic livestock from the pasture before making the application. Wait 60 days after making this application before grazing or harvesting the treated area.

**Applications Following The First Cutting:**

**USE INSTRUCTIONS:** Apply this product after the first Bermudagrass cutting when the Bermudagrass has not yet begun to regrow. Applications made after regrowth has begun can damage the Bermudagrass.

**PRECAUTIONS, RESTRICTIONS:** Remove domestic livestock from the pasture before making the application. Wait 28 days after making this application before grazing or harvesting the treated area.

**NOTE:** ONLY ONE APPLICATION PER YEAR MAY BE MADE TO ANY ONE FIELD. A SPRING APPLICATION PRIOR TO GROWTH AND AN APPLICATION FOLLOWING THE FIRST CUTTING MAY NOT BE MADE ON THE FIELD DURING THE SAME YEAR.

**Rangelands**

**TYPES OF APPLICATIONS:** Postemergence.

This product will control or suppress many annual weeds growing in perennial cool and warm-season grass rangelands.

Preventing viable seed production is key to the successful control and invasion of annual grassy weeds in rangelands. Follow-up applications in sequential years should eliminate most of the viable seeds.

Grazing of treated areas should be delayed to encourage growth of desirable perennials. Allowing desirable perennials to flower and reseed in the treated area will encourage successful transition.

**USE INSTRUCTIONS:** Apply 0.3 to 0.4 pounds of this product per acre to control or suppress many weeds, including downy brome, cheatgrass, cereal rye and jointed goatgrass in rangelands. Apply when most brome plants are in early flower and before the plants, including seedheads, turn color. Allowing for secondary weed flushes to occur in the spring following rain events further depletes the seed reserve and encourages perennial grass conversion on weedy sites. Fall applications are possible, and specified, where spring moisture is usually limited and fall germination allows for good weed growth.

For medusahead, apply 0.4 pounds of this product per acre at the 3-leaf stage. Delaying applications beyond this stage will result in reduced or unacceptable control. Controlled burning may be useful in eliminating the thatch layer produced by slow decaying culms prior to application. Allow new growth to occur before spraying after a burn. Repeat applications in subsequent years may be necessary to eliminate the

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seedbank before reestablishing desirable perennial grasses in medusahead-dominated rangelands.

**PRECAUTIONS, RESTRICTIONS:** Slight discoloration of the desirable grasses may occur, but they will regreen and regrow under moist soil conditions as effects of this product wear off. No waiting period between treatment and feeding of livestock grazing is required. Do not apply more than 2.3 pounds per acre per year.

### **Turf Grass Sod Production**

**TYPES OF APPLICATIONS:** Preplant, Preemergence, Renovation, Site Preparation, Spot Treatment. Preplant, Preemergence, Renovation, Site Preparation

**USE INSTRUCTIONS:** This product controls most existing vegetation prior to renovating turf grass areas or establishing turf grass grown for seed or sod. Broadcast or hand-held equipment may be used to control sod remnants or other unwanted vegetation after sod is harvested. For maximum control of existing vegetation, delay planting or sodding to determine if any regrowth from escaped underground plant parts occurs. For warm-season grasses such as Bermudagrass, summer or fall applications provide the best control.

Desirable turf grasses may be planted following the above procedures.

**PRECAUTIONS, RESTRICTIONS:** Do not feed or graze turf grass grown for seed or sod production for 8 weeks following application.

#### **Spot Treatment**

Hand-held equipment may be used for spot treatment of unwanted vegetation growing in existing turf grass.

### **ROUNDUP READY CROPS**

The following instructions include all applications which can be made onto Roundup Ready® crops during the complete cropping season. Do NOT combine these instructions with other recommendations made for crop varieties which do not contain the Roundup Ready gene, in the "CROPS (ALPHABETICAL)" Section of this label.

MEY CORPORATION RECOMMENDS USE OF THIS PRODUCT FOR POSTEMERGENCE APPLICATION ONLY ON CROP VARIETIES DESIGNATED AS CONTAINING THE ROUNDUP READY GENE.

Applying this product to crop varieties which are not designated as Roundup Ready will result in severe crop injury and yield loss. Avoid contact with foliage, green stems, or fruit of crops, or any desirable plants which do not contain the Roundup Ready gene, since severe injury or destruction will result.

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

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

**For aerial applications** apply this product in 3 to 15 gallons of water per acre. See the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for procedures to avoid spray drift that may cause injury to any vegetation not intended for treatment. Use of appropriate buffer zones will help prevent injury to adjacent vegetation.

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

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

Tank mixtures with other herbicides, insecticides, fungicides, micronutrients or foliar fertilizers may result in reduced weed control or crop injury and are NOT specified for over-the-top applications of this product unless otherwise noted in this product label.

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

**NOTE:** The following recommendations are based on a clean start at planting by using a burndown application or tillage to control existing weeds before crop emergence. In no-till and stale seedbed systems, a preplant burn-down treatment of this product is specified to control existing weeds prior to crop emergence. Some weeds, such as black nightshade, broadleaf signalgrass, sicklepod, Texas panicum, sandbur, annual morningglory, woolly cupgrass, shattercane, wild proso millet, burcumber, and giant ragweed with multiple germination times or suppressed (stunted) weeds may require a second application of this product for complete control. The second application should be made after some regrowth has occurred and at least 10 days after a previous application of this product.

**Canola with the Roundup Ready Gene**

**TYPES OF APPLICATIONS:** Preplant, At-Planting, Preemergence, Postemergence.

DO NOT USE THIS PRODUCT ON CANOLA WITH THE ROUNDUP READY GENE PLANTED IN THE FOLLOWING STATES: ALABAMA, DELAWARE, FLORIDA, GEORGIA, KENTUCKY, MARYLAND, NEW JERSEY, NORTH CAROLINA, SOUTH CAROLINA, TENNESSEE, VIRGINIA AND WEST VIRGINIA.

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THE USE OF THIS PRODUCT FOR IN-CROP APPLICATIONS OVER ROUNDUP READY CANOLA MAY NOT BE PRACTICED IN CALIFORNIA UNLESS THE APPLICATOR HAS AT THE TIME OF APPLICATION A CALIFORNIA-APPROVED SUPPLEMENTAL LABEL SPECIFYING THE APPROVED DIRECTIONS FOR USE.

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**Maximum Allowable Combined Application Quantities Per Season,**

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Preplant, At-planting, Preemergence applications    1.6 pounds per acre  
Total in-crop application from emergence to 6-leaf stage    1.6 pounds per acre

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**Preplant, At-Planting and Preemergence**

**USE INSTRUCTIONS:** This product may be applied before, during or after planting canola. Postemergence

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

Weeds Controlled: For specific rates of application and instructions, refer to the "ANNUAL and PERENNIAL WEEDS RATE TABLES" in this booklet.

**Single Application** - Apply 0.4 to 0.8 pounds per acre no later than the 6-leaf stage for the control of annual weeds. Avoid overlapping applications that may result in temporary yellowing, delayed flowering, and or growth reduction. Similar injury may result when applications of more than 0.4 pounds per acre are applied after the 4-leaf stage.

**Sequential Application** - Apply 0.8 pounds per acre to 1 to 3-leaf canola followed by a sequential application at a minimum interval of 10 days, but no later than the 6-leaf stage. Sequential applications are specified for early emerging annual weeds and perennial weeds such as Canada thistle and quackgrass or when controlling weeds with multiple application times.

**PRECAUTIONS, RESTRICTIONS:** See the "ROUNDUP READY CROPS" section of this label for general precautionary instructions for use in Roundup Ready crops. No more than two over-the-top broadcast applications may be made from crop emergence through the 6-leaf stage of development and the total in-crop application should not exceed 1.6 pounds per acre. Allow a minimum of 60 days between last application and canola harvest.

**Corn with the Roundup Ready Gene**

**TYPES OF APPLICATIONS:** Preplant, At-Planting, Preemergence, Postemergence (in-crop), Spot Treatment, Preharvest, Post-Harvest.

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**Maximum Allowable Combined Application Quantities Per Season**

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Combined total per year for all applications    6.2 pounds per acre

Preplant, At-planting, Preemergence applications 3.8 pounds per acre

Total in-crop applications from emergence through the V8 stage or 30 inches 1.6 pounds per acre

Maximum preharvest application rate after maximum kernel fill is complete and the crop is physiologically mature (black layer formation) until 7 days before harvest 0.8 pounds per acre

**Preplant, Preemergence and At-Planting**

**USE INSTRUCTIONS:** This product may be applied alone or in a tank-mixture before, during or after planting corn.

**TANK MIXTURES:** This product may be tank mixed with Bullet, Degree, Degree Xtra, Harness, Harness Xtra, Harness Xtra 5.6L, Lariat, Lasso or Micro-Tech at 50 to 100 percent of labeled. Refer to the specific product label and observe all precautions and limitations on the label for any preemergence herbicide application, including application timing restrictions, soil restrictions, minimum recropping interval and rotational guidelines - the more restrictive requirements apply.

**NOTE:** For maximum weed control, a postemergence (in-crop) application of this product should be applied following the use of less than labeled rates of the preemergence residual products listed above.  
Postemergence (in-crop)

**USE INSTRUCTIONS:** This product may be applied postemergence to Roundup Ready corn from emergence through the V8 stage (8 leaves with collars) or until corn height reaches 30 inches. whichever comes first.

When applied as directed, this product controls labeled annual grass and broadleaf weeds in Roundup Ready corn. Many perennial grasses and broadleaf weeds will be controlled or suppressed with one or more application of this product. The postemergent application of 0.6 to 0.8 pounds per acre of this product should be made before the weeds reach a height and/or density that the weeds become competitive with the crop, generally 4 inch tall weeds or less.

This product may be applied alone as a postemergence in-crop application to provide control of emerged weeds listed on this label. If new flushes of weeds occur, a sequential application of this product at 0.6 to 0.8 pounds per acre will control the labeled grasses and broadleaf weeds.

**TANK MIXTURES:** This product may be applied in tank mixture with Bullet, Degree, Degree Xtra, Harness, Harness Xtra, Harness Xtra 5.6L, and Micro-Tech at 50 to 100 percent of labeled rate. This product may be applied in tank mixture with Permit and Atrazine at labeled rates. Refer to the specific product label and observe all precautions and limitations on the label for all products used in tank mixtures, including application timing restrictions, soil restrictions, minimum recropping interval and rotational guidelines - the more restrictive requirements apply.

<b>Tank-Mix Partner</b>	<b>Maximum Height of Corn For Application</b>
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Degree Degree Xtra Harness Harness Xtra Harness Xtra 5.6	11 inches
Bullet* Micro-Tech*	5 inches
Permit	30 inches
Atrazine	12 inches

\*Bullet and Micro-Tech are not registered for use as a postemergence application in Texas.

**PRECAUTIONS, RESTRICTIONS:** See the "ROUNDUP READY CROPS" section of this label for general precautionary instructions for use in Roundup Ready crops. Single in-crop applications of this product are not to exceed 0.8 pounds per acre. Sequential in-crop applications of this product from emergence through the V8 stage or 30 inches must not exceed 1.6 pounds per acre per growing season. Allow a minimum of 10 days between in-crop applications of this product. Allow a minimum of 50 days between application of this product and harvest of corn forage.

**Preharvest**

**USE INSTRUCTIONS:** In Roundup Ready corn, up to 0.8 pounds per acre of this product can be applied preharvest. Make applications at 35 percent grain moisture or less. Ensure that maximum kernel fill is complete and the corn is physiologically mature (black layer formed).

**PRECAUTIONS, RESTRICTIONS:** Allow a minimum of 7 days between application and harvest.

**Post-Harvest**

**USE INSTRUCTIONS:** This product may be applied after harvest of corn. Higher rates may be required for control of large weeds that were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used provided the product tank mixed is registered for use on these sites.

**PRECAUTIONS, RESTRICTIONS:** Allow a minimum of 7 days between treatment and harvest or feeding of treated vegetation.

**Corn Tank Mix With AIM™ For Improved Symptoms In Pre-Plant Applications**

**RECOMMENDATIONS:** This tank-mixture will significantly enhance the speed of symptomatology appearance on certain weeds when applied as a pre-plant treatment prior to corn emergence. This mixture may be applied prior to planting or emergence. This mixture will not provide residual control of weeds that are unemerged at the time of treatment.

Combine 0.8 pounds of this product per acre and Aim (0.144 ounce per acre) in the spray tank in 10 to 20 gallons of water per acre. For best results, make applications to actively growing weeds. The addition of 2,4-D or dicamba is not specified. Follow instructions under "Tank Mixing Procedure" in section A.5.2 of this label.



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**For Control And Management Of Glyphosate Resistant Horse Weed (Marestail, *Coñyza canadensis*) In Roundup Ready Corn**

**Preplant, At-Planting, Preemergence**

Apply a tank mixture of this product (0.8 pounds per acre) plus 2,4-D (0.5 pounds a.i. of per acre) before horseweed exceeds 6 inches in height. See the 2,4-D product label for time intervals that are required between application and planting.

Atrazine (1 to 2 pounds active ingredient per acre) may be included in the tank-mixture to provide residual control. Refer to the atrazine product label for specific use instructions.

**In-crop**

In-crop Roundup Ready corn, apply a tank-mixture of this product (0.8 POUNDS per acre) plus Clarity (8 to 16 fluid ounces per acre) or 2,4-D (0.5 to 1.0 pounds. a.i. per acre). Apply between corn emergence and the 5-leaf stage of growth (approximately 8 inches tall).

**Cotton with the Roundup Ready Gene**

**TYPES OF APPLICATIONS:** Preplant, At-Planting, Preemergence, Over-the-Top, Selective Equipment, Preharvest.

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**Maximum Allowable Combined Application Quantities Per Season**

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Combined total per year for all applications acre	6.2 pounds per
Preplant, At-planting, Preemergence applications acre	3.8 pounds per
Total in-crop applications from ground cracking to layby	2.9 pounds per acre
Maximum preharvest application rate acre	1.6 pounds per

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**PRECAUTIONS, RESTRICTIONS:** See the "ROUNDUP READY CROPS" section of this label for general precautionary instructions for use in Roundup Ready crops. The combined total application of this product from cotton emergence until harvest must not exceed 4.6 pounds per acre. NO MORE THAN TWO OVER-THE-TOP BROADCAST APPLICATIONS MAY BE MADE FROM CROP EMERGENCE THROUGH THE 4LEAF (NODE) STAGE OF DEVELOPMENT. NO MORE THAN TWO APPLICATIONS SHOULD BE MADE FROM THE 5-LEAF STAGE THROUGH LAYBY. SEQUENTIAL IN-CROP OVER-THE-TOP OR POST-DIRECTED APPLICATIONS OF THIS PRODUCT MUST BE AT LEAST 10 DAYS APART AND COTTON MUST HAVE AT LEAST

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TWO NODES OF INCREMENTAL GROWTH BETWEEN APPLICATIONS. ALLOW A MINIMUM OF 7 DAYS BETWEEN APPLICATION AND HARVEST.

### **Preplant, At-Planting and Preemergence**

**USE INSTRUCTIONS:** This product may be applied before, during or after planting cotton.

### **Over-the-Top**

**USE INSTRUCTIONS:** This product may be applied by aerial or ground application equipment at rates up to 0.8 pounds per acre per application postemergence to Roundup Ready cotton from the ground cracking stage until the 4-leaf (node) stage of development (until the fifth true leaf reaches the size of a quarter). Over-the-top applications made after the 4-leaf (node) stage of development may result in boll loss, delayed maturity and/or yield loss. Reduce the rate of **N Tank** by 50% during cloudy wet weather and for four (4) days after a cloudy wet period to reduce the possibility of leaf burn.

### **Salvage Treatment**

This treatment may be used after the 4-leaf stage of development and should only be used where weeds threaten to cause the loss of the crop. 1.2 pounds per acre may be applied either as an over-the-top applications or as a post-directed treatments sprayed higher on the cotton plants and over the weeds. NOTE: SALVAGE TREATMENTS WILL RESULT IN SIGNIFICANT BOLL LOSS, DELAYED MATURITY AND/OR YIELD LOSS. NO MORE THAN ONE SALVAGE TREATMENT SHOULD BE USED PER GROWING SEASON.

**NOTE:** For specific rates of application and instructions, refer to the "ANNUAL and PERENNIAL WEEDS RATE TABLES" in this booklet.

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

### **Selective Equipment**

**USE INSTRUCTIONS:** This product may be applied using precision post-directed or hooded sprayers at rates up to 0.8 pounds per acre per application to Roundup Ready cotton through layby. At this stage, post-directed equipment should be used which directs the spray to the base of the cotton plants. Contact of the spray with cotton leaves should be avoided to the maximum extent possible. To minimize spray onto the leaves of the cotton plants, place nozzles in a low position directing a horizontal spray pattern under the cotton leaves to contact weeds in the row, and maintain low spray pressure (less than 30 psi). For best results, make applications while weeds are small (less than 3 inches).

**PRECAUTIONS, RESTRICTIONS:** See the "SELECTIVE EQUIPMENT" part of the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for information on proper use and calibration of this equipment.

### **Preharvest**

**USE INSTRUCTIONS:** This product may be applied for preharvest annual and perennial

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weed control as a broadcast treatment to Roundup Ready cotton after 20 percent boll crack. Up to 1.6 pounds of this product may be applied using either aerial or ground spray equipment. NOTE: This product will not enhance the performance of harvest aids when applied to Roundup Ready cotton

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

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

**For Control And Management Of Glyphosate Resistant Horse Weed (Marestail, *Conyza canadensis*) In Roundup Ready Cotton**

**Preplant**

For control of horseweed, apply this product (0.8 pounds per acre) in a tank-mix with Clarity® (8 fluid ounces per acre). This application must be made 21 to 35 days before planting and before horseweed reaches 6 inches in height. In order to avoid crop injury, a minimum interval of 21 days during which there is at least 1 inch of cumulative rainfall must be observed between Clarity applicator and planting of cotton.

**Post-directed**

Management of early season weed competition and the development of a crop height differential between cotton and the horseweed is often achieved by a combination of preplant burndown and post emergent over-the-top and/or directed applications. These measures enhance the development of a height differential that is necessary to successfully make post-directed treatments. In-crop post-directed applications of MSMA (2 pounds active ingredient per acre) tank-mixed with diuron (0.5 to 0.75 pounds active ingredient per acre) should be made when the temperature is 80°F or higher.

**Soybeans with the Roundup Ready Gene**

**TYPES OF APPLICATIONS:** Preplant, At-Planting, Preemergence, Postemergence, Preharvest, Post-Harvest.

THE USE OF THIS PRODUCT FOR IN-CROP APPLICATIONS OVER ROUNDUP READY SOYBEANS MAY NOT BE PRACTICED IN CALIFORNIA UNLESS THE APPLICATOR HAS AT THE TIME OF APPLICATION A CALIFORNIA-APPROVED SUPPLEMENTAL LABEL SPECIFYING THE APPROVED DIRECTIONS FOR USE.

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**Maximum Allowable Combined Application Quantities Per Season**

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Combined total per year for all applications

6.2 pounds per acre

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Preplant, At-planting, Preemergence applications	3.8 pounds per acre
Total in-crop applications from cracking throughout flowering	2.3 pounds per acre
Maximum preharvest application rate	0.8 pounds per acre

**PRECAUTIONS/RESTRICTIONS:** See the "ROUNDUP READY CROPS" section of this label for general precautionary instructions for use in Roundup Ready crops. Preplant, Preemergence and At-Planting

**USE INSTRUCTIONS:** This product may be applied before, during or after planting soybeans. Postemergence

**USE INSTRUCTIONS:** When applied as directed, this product will control labeled annual grasses and broadleaf weeds in Roundup Ready soybeans. Applications of this product can be made in Roundup Ready soybeans from emergence (cracking) throughout flowering. Refer to the "ANNUAL WEEDS RATE TABLE" in this label for rate recommendations for specific annual weeds. In general, an initial application of 0.8 pounds per acre on 2 to 8 inch tall weeds is recommended. Weeds will generally be 2 to 8 inches tall, 2 to 5 weeks after planting. If the initial application is delayed and weeds are larger, apply a higher rate of this product. This product may be used up to 1.6 pounds per acre in any single in-crop application for control of annual weeds and where heavy weed densities exist.

A 0.8 to 1.6 pounds per acre rate (single or multiple applications) of this product will control or suppress perennial weeds such as: Bermudagrass, Canada thistle, common milkweed, field bindweed, hemp dogbane, horsenettle, marestail (horseweed), nutsedge, quackgrass, rhizome johnsongrass, redvine, trumpetcreeper, swamp smartweed and wirestem muhly. For best results, allow perennial weed species to achieve at least 6 inches of growth before spraying with this product.

Under adverse growing conditions such as drought, hail, wind damage or a poor soybean stand that slows or delays canopy closure, a sequential application of this may be necessary to control late flushes of weeds. IN THE SOUTHERN STATES, A SEQUENTIAL APPLICATION OF THIS PRODUCT WILL BE REQUIRED TO CONTROL NEW FLUSHES OF WEEDS IN THE ROUNDUP READY SOYBEAN CROP. To control giant ragweed, apply 0.8 pounds per acre of this product when the weed is 8 to 12 inches tall to increase control and possibly avoid the need for a sequential application.

**PRECAUTIONS, RESTRICTIONS:** The combined total application from crop emergence through harvest must not exceed 2.3 pounds per acre. The maximum rate for any single in-crop application is 1.6 pounds per acre. The maximum combined total of this product that can be applied during flowering is 1.6 pounds per acre.

**Preharvest**

**USE INSTRUCTIONS:** This product provides weed control when applied prior to harvest of soybeans. Up to 0.8 pounds per acre of this product can be applied by aerial or ground application.

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**PRECAUTIONS, RESTRICTIONS:** Care should be taken to avoid excessive seed shatter loss due to ground application equipment. Allow a minimum of 14 days between final application and harvest of soybean grain or feeding of soybean grain, forage or hay.

**Post-harvest**

**USE INSTRUCTIONS:** This product may be applied after harvest of Roundup Ready soybeans. Higher rates may be required for control of large weeds which were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used provided the product tank mixed is registered for use on these sits.

**Soybean Tank Mix With AIM™ For Improved Symptoms In Pre-Plant Applications**

**RECOMMENDATIONS:** This tank-mixture will significantly enhance the speed of symptomatology appearance on certain weeds when applied as a pre-plant treatment prior to soybean emergence. This mixture may be applied prior to planting or emergence. This mixture will not provide residual control of weeds that are unemerged at the time of treatment.

Combine 0.8 pounds of this product per acre and Aim (0.144 ounce per acre) in the spray tank in 10 to 20 gallons of water per acre. For best results, make applications to actively growing weeds. The addition of 2,4-D or dicamba is not specified. Follow instructions under "Tank Mixing Procedure" in section A.5.2 of this label.

**For Control And Management Of Glyphosate Resistant Horse Weed (Marestail, *Conyza canadensis*) In Roundup Ready Soybeans**

**Preplant**

Apply a tank mixture of this product (0.8 pounds per acre) with 2,4-D (0.5 pounds ad. per acre) before horseweed exceeds 6 inches in height. See the 2,4-D product label for time intervals that are required between application and planting. For areas where 2,4-D cannot be applied due to application restrictions or proximity to a sensitive crop, contact your local retailer.

**In-crop**

It is strongly encouraged that horseweed should be controlled prior to planting using specified preplant burndown treatments. Apply a tank mixture of this product (0.8 pounds per acre) with Amplif™ (0.3 ounces per acre). This treatment should be used as a salvage treatment only for a horseweed infestation that was not controlled preplant. Application should be made between full emergence of the first trifoliolate leaf and 50% flowering stage of soybeans. At the time of treatment, horseweed should not exceed 6 inches in height.

**Sugar beets with the Roundup Ready Gene**

**TYPES OF APPLICATIONS:** Preplant, At-Planting, Preemergence,

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Postemergence.

**Maximum Allowable Combined Application Quantities Per Season**

Combined total per year for all applications	6.2 pounds per acre
Preplant, At-planting, Preemergence applications	3.8 pounds per acre
Emergence to 8-leaf stage	2.0 pounds per acre

**PRECAUTIONS, RESTRICTIONS:** See the "ROUNDUP READY CROPS" section of this label for general precautionary instructions for use in Roundup Ready crops. The combined total application from crop emergence through harvest must not exceed 3.5 pounds per acre. The maximum rate for any single application from crop emergence until the 8-leaf stage is 1.2 pounds per acre. The maximum rate for any single application between the 8-leaf stage and canopy closure is 0.8 pounds per acre. Allow a minimum of 30 days between last application and sugar beet harvest.

**Preplant, At-Planting and Preemergence**

**USE INSTRUCTIONS:** This product may be applied before, during or after planting of Roundup Ready sugar beets.

**Postemergence**

**USE INSTRUCTIONS:** This product may be applied postemergent over-the-top to Roundup Ready sugar beets from emergence to 30 days prior to harvest. To maximize yield potential spray sugar beets early to eliminate competing weeds. Up to 4 sequential applications of this product may be made with at least 10 days between applications. Refer to the "ANNUAL WEEDS RATE TABLES" in this label for rate recommendations for specific annual weeds. This product will control or suppress most perennial weeds. For some perennial weeds, repeat applications may be required to eliminate crop competition throughout the growing season.

**NON-CROP USES AROUND THE FARMSTEAD**

**TYPES OF APPLICATIONS:** General Weed Control, Trim-and-Edge, Greenhouse/Shadehouse, Chemical Mowing, Habitat Management.

**General Weed Control and Trim-and-Edge**

**USE INSTRUCTIONS:** This product may be used to control annual weeds, perennial weeds and woody brush which are found in any part of the farmstead, including building foundations, along and in fences, in dry ditches and canals, along ditchbanks, farm roads, shelterbelts, prior to landscape plantings and equipment storage areas.

**TANK MIXTURES:** This product may be tank mixed with the following products provided the product tank mixed is registered for use on these sites. Refer to these product labels for approved farmstead sites and application rates. For annual weeds, use 0.8 pounds per acre of this product when weeds are less than 6

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inches tall, 1.2 pounds per acre when weeds are 6 to 12 inches tall and 1.6 pounds per acre when weeds are greater than 12 inches tall.. For perennial weeds, apply 1.6 to 3.8 pounds per acre in these tank mixes. For tank mixtures with these products through backpack sprayers, handguns or other high-volume spray-to-wet applications, see the "ANNUAL WEEDS -- HANDHELD OR HIGH VOLUME EQUIPMENT" section of this label for specified rates.

- |                 |                |
|-----------------|----------------|
| Arsenal         | Plateau        |
| Banvel/Clarity  | Princep DF     |
| Barricade 65WG  | Princep Liquid |
| Diuron          | Ronstar 50 WP  |
| Endurance       | Sahara         |
| Escort          | Simazine       |
| Karmex DF       | Surflan        |
| Krovar I DF     | Telar          |
| Oust            | Vanquish       |
| Pendulum 3.3 EC | 2,4-D          |
| Pendulum WDG    |                |

This product plus dicamba tank mixtures may not be applied by air in California.

**Greenhouse/Shadehouse**

This product may be used to control weeds in and around greenhouses and shadehouses. Desirable vegetation must not be present during application and air circulation fans must be turned off. Do not use in residential greenhouses.

**Chemical Mowing**

**USE INSTRUCTIONS:** This product will suppress perennial grasses listed in this section to serve as a substitute for mowing. Use 0.15 pounds of this product per acre when treating Kentucky bluegrass. Use 0.15 pounds of this product per acre when treating tall fescue, fine fescue, orchardgrass, bahiagrass or quackgrass covers. Use 0.4 pounds of this product per acre when treating bermudagrass. Use 1.6 pounds of this product per acre when treating torpedograss or paragrass. Apply treatments in 10 to 20 gallons of spray solution per acre. Chemical mowing applications may be made along farm ditches and other parts of farmsteads.

**PRECAUTIONS, RESTRICTIONS:** Use only in areas where some temporary injury or discoloration of perennial grasses can be tolerated.

**Habitat Management**

**TYPES OF USES:** Habitat Restoration and Maintenance, Wildlife Food Plots. Habitat Restoration and Maintenance

**USE INSTRUCTIONS:** This product may be used to control exotic and other undesirable vegetation in habitat management areas. Applications can be made to allow recovery of native plant species, prior to planting desirable native species, and for similar broad spectrum vegetation control requirements in habitat management areas. Spot treatments can be made to selectively remove unwanted plants for habitat maintenance and enhancement.

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### Wildlife Food Plots

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

### INDUSTRIAL, TURF AND ORNAMENTAL USES

#### SITE AND USE RECOMMENDATIONS

Detailed instructions follow alphabetically, by site.

Unless otherwise specified, applications may be made to control any weeds listed in the annual, perennial and woody brush tables. Refer also to the "SELECTIVE EQUIPMENT" section.

#### Forestry Site Preparation

This product is recommended for the control or partial control of woody brush, trees and herbaceous weeds in forestry. This product is also specified for use in preparing or establishing wildlife openings within these sites and maintaining logging roads.

This product is recommended for use in site preparation prior to planting any tree species, including Christmas trees, eucalyptus, hybrid tree cultivars and silvicultural nursery sites.

#### APPLICATION RATES AND TIMING

APPLICATION	(GLY N GO) (This product)/ This product	SPRAY VOLUME GAL/ACRE
<b>Broadcast</b>		
Aerial	0.8 to 7.6 pounds per acre	5 to 30
Ground		10 to 60
<b>Spray-To-Wet</b>		
Handgun	0.4 to 0.8 percent	Spray-To-Wet
Backpack		
<b>Low Volume Directed Spray</b>		
Handgun	2.25 to 4.0 percent	Partial Coverage*
Backpack		

\*For low volume directed spray applications, coverage should be uniform with at least 50 percent of the foliage contacted. Coverage of the top one-half of the plant is important for best results.

Use higher rates of this product within the specified range for control or partial control of woody brush, trees and hard-to-control perennial herbaceous weeds. For best results, apply to actively growing woody brush and trees after full leaf expansion and before fall color and leaf drop. Increase rates within the specified range for control of perennial herbaceous weeds any time after emergence and before seedheads, flowers or berries appear.

Use the lower rates of this product within the specified range for control of annual herbaceous weeds and actively growing perennial herbaceous weeds after



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seedheads, flowers or berries appear. Apply to the foliage of actively growing annual herbaceous weeds any time after emergence.

This product has no herbicidal or residual activity in the soil. Where repeat applications are necessary, do not exceed 8.2 pounds of this product per acre per year.

### TANK MIXTURES

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

**NOTE:** For forestry site preparation, make sure the tank-mix product is approved for use prior to planting the desired species. Observe planting interval restrictions.

Any specified rate of this product may be used in a tank mix with the following products for forestry site preparation.

PRODUCT	BROADCAST RATE
Arsenal™ Applicators Concentrate	2 to 16 fluid ounces per acre
Escort™	1/2 to 3 1/2 fluid ounce per acre
Chopper™	4 to 32 fluid ounce per acre
Garlon™ 4	1 to 4 quarts per acre
Oust™	1 to 4 ounces per acre
	<b>SPRAY-TO-WET RATES</b>
Arsenal™ Applicators Concentrate	1/32 to 1/2 percent by volume
	<b>LOW VOLUME DIRECTED SPRAY RATES</b>
Arsenal™ Applicators Concentrate	1/8 to 1/2 percent by volume

For control of herbaceous weeds, use the lower specified tank mixture rates. For control of dense stands or tough-to-control woody brush and trees, use the higher specified rates.

**Do not apply this product as an over-the-top broadcast spray for forestry conifer or hardwood release.**

### General Non-crop Areas and Industrial Sites

Use in areas such as airports, Christmas tree farms, ditch banks, dry ditches, dry canals, fencerows, golf courses, industrial sites, lumber yards, manufacturing sites, office complexes, ornamental nurseries, parking areas, petroleum tank farms and pumping installations, railroads, roadsides, sod or turf seed farms, storage areas, substations, warehouse areas, other public areas, and similar industrial and non-crop sites.

### General weed control, Trim-and-edge and Bare ground

This product may be used in general non-crop areas. It may be applied with any application equipment described in this label. This product may be used to trim-

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and-edge around objects in non-crop sites, for spot treatment of unwanted vegetation and to eliminate unwanted weeds growing in established shrub beds or ornamental plantings. This product may be used prior to planting an area to ornamentals, flowers, turfgrass (sod or seed), or prior to laying asphalt or beginning construction projects.

Repeated applications of this product may be used, as weeds emerge, to maintain bare ground.

This product may be tank mixed with the following products provided the product tank mixed is registered for use on these sites. Refer to these products' labels for approved noncrop sites and application rates.

ARSENAL™	PENDULUM™ 3.3 EC
CLARITY	PENDULUM WDG
BARRICADE™ 65WG	PLATEAU™
DIURON	PRINCEP™ DF
ENDURANCE™	PRINCEP™ LIQUID
ESCORT™	RONSTAR™ 50WP
GARLON™ 3A	SAHARA™
GARLON 4	SIMAZINE
KARMEX™ DF	SURFLAN™
KROVARTM I DF	TELAR™
MANAGE®	VANQUISH™
OUST	2,4-D

This product plus dicamba tank mixtures may not be applied by air in California.

When applied as a tank mixture for bare ground, this product provides control of the emerged annual weeds and control or partial control of emerged perennial weeds, woody brush and trees.

For control or partial control of the following perennial weeds, apply 0.8 to 1.6 pounds of this product plus 2 to 4 ounces of Oust per acre.

Bahiagrass	Fescue, tall
Bermudagrass	Johnsongrass
Broomsedge	Poorjoe
Dallisgrass	Quackgrass
Dock, curly	Vaseygrass
Dogfennel	Vervain, blue

**Chemical mowing - Perennials**

This product will suppress perennial grasses listed in this section to serve as a substitute for mowing. Use 0.15 pounds of this product per acre when treating tall fescue, fine fescue, orchardgrass, quackgrass or reed canarygrass covers. Use 0.15 pounds of this product per acre when treating Kentucky bluegrass. Apply treatments in 10 to 40 gallons of spray solution per acre.

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

**Chemical mowing - Annuals**

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For growth suppression of some annual grasses, such as annual ryegrass, wild barley and wild oats growing in coarse turf on roadsides or other industrial areas, apply 0.1 to 0.15 pounds of this product in 10 to 40 gallons of spray solution per acre. Applications should be made when annual grasses are actively growing and before the seedheads are in the boot stage of development. Treatments may cause injury to the desired grasses.

### **Bromus species and Medusahead in Pastures and Rangelands**

**Bromus species.** This product may be used to treat downy brome (*Bromus tectorum*), Japanese brome (*Bromus japonicus*), soft chess (*Bromus mollis*) and cheatgrass (*Bromus setinervis*) found in industrial, rangeland and pasture sites. Apply 0.2 to 0.4 pounds of this product per acre on a broadcast basis.

For best results, treatment should coincide with early seedhead emergence of the most mature plants. Delaying the application until this growth stage will maximize the emergence of other weedy grass flushes. Applications should be made to the same site each year until seed banks are depleted and the desirable perennial grasses can become reestablished on the site.

**Medusahead.** To treat medusahead, apply 0.4 pounds of this product per acre as soon as plants are actively growing, and prior to the 4-leaf stage. Applications may be made in the fall or spring.

Applications to brome and medusahead may be made using ground or aerial equipment. Aerial applications for these uses may be made using fixed wing or helicopter equipment. For aerial applications, apply in 2 to 10 gallons of water per acre. For applications using ground equipment, apply in 10 to 20 gallons of water per acre. When applied as directed in this label, there are no grazing restrictions.

### **Dormant turfgrass**

This product may be used to control or suppress many winter annual weeds and tall fescue for effective release of dormant Bermudagrass and bahiagrass turf. Treat only when turf is dormant and prior to spring greenup.

Apply 0.2 to 1.6 pounds of this product per acre. Apply the specified rates in 10 to 40 gallons of water per acre. Use only in areas where Bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated.

Treatments in excess of 0.4 pounds per acre may result in injury or delayed greenup in highly maintained areas, such as golf courses and lawns. DO NOT apply tank mixtures of this product plus Oust in highly maintained turfgrass areas. For further uses, refer to the "ROADSIDES" section of this label, which gives rates for dormant Bermudagrass and bahiagrass treatments.

### **Actively growing Bermudagrass**

This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing Bermudagrass. DO NOT apply more than 0.4 pounds of this product per acre in highly maintained turfgrass areas. DO NOT apply tank mixtures of this product plus Oust in highly maintained

turfgrass areas. For further uses, refer to the "ROADSIDES" section of this label, which gives rates for actively growing Bermudagrass treatments. Use only in areas where some temporary injury or discoloration can be tolerated.

### **Turfgrass renovation, seed, or sod production**

This product controls most existing vegetation prior to renovating turfgrass areas or establishing turfgrass grown for seed or sod. For maximum control of existing vegetation, delay planting or sodding to determine if any regrowth from escaped underground plant parts occurs. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses such as Bermudagrass, summer or fall applications provide the best control. Where existing vegetation is growing under mowed turfgrass management, apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the spray.

Do not disturb soil or underground plant parts before treatment. Tillage or renovation techniques such as vertical mowing, coring or slicing should be delayed for 7 days after application to allow translocation into underground plant parts.

Desirable turfgrasses may be planted following the above procedures.

Hand-held equipment may be used for spot treatment of unwanted vegetation growing in existing turfgrass. Broadcast or hand-held equipment may be used to control sod remnants or other unwanted vegetation after sod is harvested.

Do not feed or graze turfgrass grown for seed or sod production for 8 weeks following application.

## **Habitat Management**

### **Habitat restoration and management**

This product may be used to control exotic and other undesirable vegetation in habitat management and natural areas, including rangeland and wildlife refuges. Applications can be made to allow recovery of native plant species, prior to planting desirable native species, and for similar broad-spectrum vegetation control requirements. Spot treatments can be made to selectively remove unwanted plants for habitat management and enhancement.

### **Wildlife food plots**

This product may be used as a site preparation treatment prior to planting wildlife food plots. Any wildlife food species may be planted after applying this product, or native species may be allowed to repopulate the area. If tillage is needed to prepare a seedbed, wait 7 days after application before tillage to allow translocation into underground plant parts.

## **Ornamentals, Plant Nurseries, and Christmas Trees**

### **Post-directed, Trim-and-edge**

This product may be used as a post-directed spray 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. This product may also be used to trim and edge around trees, buildings, sidewalks and roads, potted plants and other objects in a nursery setting.

Desirable plants may be protected from the spray solution by using shields or coverings made of cardboard or other impermeable material. THIS PRODUCT IS NOT RECOMMENDED FOR USE AS AN OVER-THE-TOP BROADCAST SPRAY IN ORNAMENTALS AND CHRISTMAS TREES. Care must be exercised to avoid contact of spray, drift or mist with foliage or green bark of established ornamental species.

**Site preparation**

This product may be used prior to planting any ornamental, nursery or Christmas tree species.

This product may be used to control weeds growing in and around greenhouses and shadehouses. Desirable vegetation must not be present during application and air circulation fans must be turned off. Do not use in residential greenhouses.

**Railroads**

All of the instructions in the "GENERAL NON-CROP AREAS AND INDUSTRIAL SITES" section apply to railroads.

**Bare ground, Ballast and Shoulders, Crossings, and Spot Treatment**

This product may be used to maintain bare ground on railroad ballast and shoulders. Repeat applications of this product may be used, as weeds emerge, to maintain bare ground. This product may be used to control tall-growing weeds to improve line-of-sight at railroad crossings and reduce the need for mowing along rights-of-way. For crossing applications, up to 80 gallons of spray solution per acre may be used. This product may be tank mixed with the following listed products, provided the product tank-mixed is registered for use on the site, for ballast, shoulder, spot, bare ground and crossing treatments:

- |          |             |
|----------|-------------|
| ARSENAL  | KROVAR I DF |
| CLARITY  | OUST        |
| DIURON   | SAHARA      |
| ESCORT   | SPIKET™     |
| GARLON3A | TELAR       |
| GARLON 4 | VANQUISH    |
| HYVAR™ X | 2,4-D       |

**Brush control**

This product may be used to control woody brush and trees on railroad rights-of-way. Apply 2.9 to 8.2 pounds of this product per acre as a broadcast spray, using boom-type or boomless nozzles. Up to 80 gallons of spray solution per acre may be used. Apply a 0.4 to 0.8 percent solution of this product when using high-volume spray-to-wet applications. Apply a 2.25 to 4.0 percent solution of this

product when using low volume directed sprays for spot treatment. This product may be mixed with the following products for enhanced control of woody brush and trees:

ARSENAL  
ESCORT  
GARLON 3A

GARLON 4  
TORDON™ K

**Bermudagrass release**

This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing Bermudagrass. Apply 0.4 to 1.2 pounds of this product in up to 80 gallons of spray solution per acre. Use the lower rate when treating annual weeds below 6 inches in height (or runner length). Use the higher rate as weeds increase in size or as they approach flower or seedhead formation. These rates will also provide partial control of the following perennial species:

Bahiagrass	Johnsongrass
Bluestem, silver	Trumpetcreeper
Fescue, tall	Vaseygrass

This product may be tank-mixed with Oust. If tank-mixed, use no more than 0.4 to 1.2 pounds of this product with 1 to 2 ounces of Oust per acre. Use the lower rates of each product to control annual weeds less than 6 inches in height (or runner length) that are listed in this label and the Oust label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages. These rates will also provide partial control of the following perennial weeds:

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

Use only on well-established Bermudagrass. Bermudagrass injury may result from the treatment, but regrowth will occur under moist conditions. Repeat applications in the same season are not recommended since severe injury may occur.

**Roadsides**

All of the instructions in the "GENERAL NON-CROP AREAS AND INDUSTRIAL SITES" section apply to roadsides.

**Shoulder treatments**

This product may be used on road shoulders. It may be applied with boom sprayers, shielded boom sprayers, high-volume off-center nozzles, hand-held equipment, and similar equipment.

**Guardrails and other obstacles to mowing**

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This product may be used to control weeds growing under guardrails and around signposts and other objects along the roadside.

**Spot treatment**

This product may be used as a spot treatment to control unwanted vegetation growing along roadsides.

**Tank mixtures**

This product may be tank-mixed with the following products provided the product tank mixed is registered for use on the site for shoulder, guardrail, spot and bare ground treatments:

- |                 |                |
|-----------------|----------------|
| CLARITY         | PRINCEP LIQUID |
| DIURON          | RONSTAR 50WP   |
| ENDURANCE       | SAHARA         |
| ESCORT          | SIMAZINE       |
| KROVAR 1 DF     | SURFLAN        |
| OUST            | TELAR          |
| PENDULUM 3.3 EC | VANQUISH       |
| PENDULUM WDG    | 2,4-D          |
| PRINCEP DF      |                |

See the "Tank Mixing Procedure" in section A.5.2 of this label for general instructions for tank mixing.

**Release of Bermudagrass or Bahiagrass**

**Dormant applications**

This product may be used to control or partially control many winter annual weeds and tall fescue for effective release of dormant Bermudagrass or bahiagrass. Treat only when turf is dormant and prior to spring greenup. This product may also be tank-mixed with Oust for residual control. Tank mixtures of this product with Oust may delay greenup.

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

Apply 0.2 to 1.6 pounds of this product per acre alone or in a tank mixture with 1/4 to 1 ounce per acre of Oust. Apply the specified rates in 10 to 40 gallons of water per acre. Use only in areas where Bermudagrass or bahiagrass are desirable ground covers and where some temporary injury or discoloration can be tolerated. To avoid delays in green up and minimize injury, add no more than 1 ounce of Oust per acre on Bermudagrass and no more than 1/2 ounce of Oust per acre on bahiagrass and avoid treatments when these grasses are in a semi-dormant condition.

**Actively growing Bermudagrass**

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This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing Bermudagrass. Apply 0.4 to 1.2 pounds of this product in 10 to 40 gallons of spray solution per acre. Use the lower rate when treating annual weeds below 6 inches in height (or runner length). Use the higher rate as weeds increase in size or as they approach flower or seedhead formation. These rates will also provide partial control of the following perennial species:

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

This product may be tank-mixed with Oust. If tank-mixed, use no more than 0.4 to 0.8 pounds of this product with 1 to 2 ounces of Oust per acre. Use the lower rates of each product to control annual weeds less than 6 inches in height (or runner length) that are listed in this label and the Oust label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages. These rates will also provide partial control of the following perennial weeds:

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

Use only on well-established Bermudagrass. Bermudagrass injury may result from the treatment, but regrowth will occur under moist conditions. Repeat applications of the tank mix in the same season are not recommended, since severe injury may occur.

**Actively growing bahiagrass**

For suppression of vegetative growth and seedhead inhibition of bahiagrass for approximately 45 days, apply 4 0.14 pounds of this product in 10 to 40 gallons of water per acre. Apply 1 to 2 weeks after full green up or after mowing to a uniform height of 3 to 4 inches. This application must be made prior to seedhead emergence.

For suppression up to 120 days, apply 0.1 pounds of this product per acre, followed by an application of 0.07 to 1 pounds per acre about 45 days later. Make no more than 2 applications per year.

A tank mixture of this product plus Oust may be used. Apply 0.15 pounds of this product plus 1/4 ounce of Oust per acre 1 to 2 weeks following an initial spring mowing. Make only one application per year.

**Utility sites**

In utilities, this product is recommended for use along electrical power, pipeline and telephone rights-of-way, and in other sites associated with these rights-of-way, such as substations, roadsides, railroads or similar rights-of-way that run in conjunction with utilities.



This product is also recommended for use in preparing or establishing wildlife openings within these sites, maintaining access roads and for side trimming along utility rights-of-way.

### Tank Mixtures

Tank mixtures of this product may be used to increase the spectrum of control for herbaceous weeds, woody brush and trees. When tank mixing, read and carefully observe the label claims, cautionary statements and all information on the labels of all products used. Use according to the most restrictive precautionary statements for each product in the mixture. Any specified rate of this product may be used in a tank mix.

For control of herbaceous weeds, use the lower specified tank mixture rates. For control of dense stands or tough-to-control woody brush and trees, use the higher specified rates.

**NOTE:** For side trimming treatments, it is recommended that this product be used alone or in tank mixture with Garlon 4.

PRODUCT	BROADCAST RATE	USE SITES
Arsenal 2WSL	6 to 32 fluid ounces per acre	Utility Sites
Escort	1 to 2 ounces per acre	Utility Sites
Garlon 3A*, Garlon 4	1 to 4 quarts per acre	Utility Sites/ Side Trimming
Oust	1 to 4 ounces per acre	Utility Sites
<b>SPRAY-TO-WET RATES</b>		
Arsenal 2WSL	1/16 to 1/8 percent by volume	Utility Sites
Escort	1 to 2 ounces per acre	Utility Sites
<b>LOW VOLUME DIRECTED SPRAY RATES</b>		
Arsenal 2 WSL	1/8 to 1/2 percent by volume	Utility Sites
Escort	1 to 2 ounces per acre	Utility Sites

\* Ensure that Garlon 3A is thoroughly mixed with water according to label directions before adding this product. Have spray mixture agitating at the time this product is added to avoid spray compatibility problem.

### Bare Ground and Trim-and-edge

This product may be used in utility sites and substations for bare ground, trim-and-edge around objects, spot treatment of unwanted vegetation and to eliminate unwanted weeds growing in established shrub beds or ornamental plantings. This product may be used prior to planting a utility site to ornamentals, flowers, turfgrass (sod or seed), or beginning construction projects.

Repeated applications of this product may be used, as weeds emerge, to maintain bare ground.

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This product may be tank mixed with the following products. Refer to these products' labels for approved noncrop sites and application rates.

- |                 |                 |
|-----------------|-----------------|
| ARSENAL         | PRINCEP™ DF     |
| BANVEL          | PRINCEP™ LIQUID |
| BARRICADE™ 65WG | RONSTAR™ 50WP   |
| DIURON          | SAHARA™         |
| ENDURANCE™      | SIMAZINE        |
| ESCORT          | SURFLAN™        |
| GARLON 3A       | SURFLAN™        |
| PLATEAU™        |                 |

**Tank Mixtures For Non-Crop Areas, Including Railroad Rights-Of-Way, Substations, Airports, Industrial Plants, Roadsides, Storage Areas And Similar Sites**

Do not allow spray mixtures of this herbicide to mist, drip, drift or splash onto desirable vegetation since injury or destruction may occur. Do not apply when wind or other conditions favor drift.

See the "WEEDS CONTROLLED" section of the [INSERT BRAND NAME] label booklet for rate recommendations. For difficult to control species, where dense stands occur, or where conditions for control are not ideal, 4.7 to 8.2 pounds per acre of this product may be used for improved results.

**TANK MIXTURES**

This product provides control of the emerged weeds listed in this label. When applied as a tank mixture, the following herbicides will provide preemergence and/or postemergence control of the weeds listed in the individual product labels.

The following list of products may be tank mixed with this product provided the product tank mixed is registered for use on the site. Any specified rate of this product may be used in a tank mixture with these products.

<u>Tank-mix Product</u>	<u>Rate per Acre</u>
Arsenal*	0.5 to 4 pints
Banvel	1 to 4 pints
2,4-D	0.5 to 1 pound
Garlon 3A	1 to 6 pints
Garlon 4	1 to 6 pints
Diuron	4 to 8 pounds
Diuron + 2,4-D	4 to 8 pounds + 0.5 to 1 pound
Diuron + Garlon 3A	4 to 10 pounds + 1 to 2 pints
Diuron + Garlon 4	4 to 10 pounds + 1 to 2 pints
Hyvar X	4 to 8 pounds
Hyvar X + 2,4-D	4 to 8 pounds + 0.5 to 1 pound
Hyvar X + Garlon 3A	4 to 8 pounds + 1 to 2 pints
Hyvar X + Garlon 4	4 to 8 pounds + 1 to 2 pints
Krovar I DF	4 to 6 pounds
Krovar I DF + 2,4-D	4 to 6 pounds + 0.5 to 1 pound
Krovar I DF + Garlon 3A	4 to 6 pounds + 1 to 2 pints
Krovar I DF + Garlon 4	4 to 6 pounds + 1 to 2 pints
Oust	2 to 6 ounces

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Oust + 2,4-D	2 to 6 ounces + 0.5 to 1 pound
Oust + Garlon 3A	2 to 6 ounces + 1 to 2 pints
Oust + Garlon 4	2 to 6 ounces + 1 to 2 pints
Spike 80W	2 to 5 pounds
Spike 80W + 2,4-D	2 to 5 pounds + 0.5 to 1 pound
Spike 80W + Garlon 3A	2 to 5 pounds + 1 to 2 pints
Spike 80W + Garlon 4	2 to 5 pounds + 1 to 2 pints

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

Refer to the individual product labels for specific non-crop sites, rates, carrier volumes and precautionary statements.

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

Maintain good agitation at all times during the mixing process. Ensure that the tank-mix products are well mixed with the spray solution before adding this product.

Mix only the quantity of spray solution that can be used during the same day. Tank mixtures allowed to stand overnight may result in reduced weed control.

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

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

### WEEDS CONTROLLED

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

Reduced results may occur when treating weeds heavily covered with dust. For weeds that have been mowed, grazed or cut, allow regrowth to occur prior to treatment.

Refer to the following label sections for specified rates for the control of annual and perennial weeds and woody brush and trees. For difficult to control perennial weeds and woody brush and trees, where plants are growing under stressed conditions, or where infestations are dense, this product may be used at 4.7 to 8.2 pounds per acre for enhanced results.

### ANNUAL WEEDS RATE TABLE

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(Alphabetically by Species)

**WATER CARRIER VOLUMES OF 3 TO 10 GALLONS PER ACRE FOR GROUND APPLICATIONS AND 3 TO 5 GALLONS PER ACRE FOR AERIAL APPLICATIONS ARE RECOMMENDED.**

Apply to actively growing annual weeds. Annual weeds are generally easiest to control when they are small.

Older, mature (hardened) annual weed species may require higher rates even if they meet the size requirements.

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

For weeds that have been mowed, grazed or cut, allow regrowth to occur prior to treatment.

This product may be used up to 1.2 pounds per acre where heavy weed densities exist.

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**ANNUAL WEEDS RATE TABLE**

WEED SPECIES	RATE (pounds per acre)				
	0.4	0.6	0.8	1.0	1.2
	Maximum height/length (in inches)				
Ammannia, purple	3	6	12	--	18
Annoda, spurred	--	2	3	5	8
Barley	18	18+	--	--	--
Barnyardgrass	--	3	6	7	9
Bassia, fivehook	--	--	6	--	--
Beggarweed, Florida	--	5	8	--	--
Bittercress	12	20	--	--	--
Bluegrass, annual	10	--	--	--	--
Bluegrass, bulbous	6	--	--	--	--
Brome, downy <sup>1,2</sup>	2	12	--	--	--
Brome, Japanese	6	12	24	--	--
Browntop panicum	6	8	12	--	24
Buckwheat, wild <sup>3</sup>	--	1	2	--	--
Burcucumber	--	6	12	--	18
Buttercup	12	20	--	--	--
Carolina geranium	--	--	4	--	9
Carpetweed	--	6	12	--	--
Cheat <sup>2</sup>	6	20	--	--	--
Chervil	20	--	--	--	--
Chickweed	--	12	18	--	--
Cocklebur	12	18	24	--	36
Copperleaf, hophornbeam	--	2	4	--	6
Copperleaf, Virginia	--	2	4	--	6
Coreopsis, plains	--	6	12	--	18
Corn, volunteer	6	12	20	--	--
Corn speedwell	12	--	--	--	--

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WEED SPECIES	RATE (pounds per acre)				
	0.4	0.6	0.8	1.0	1.2
	Maximum height/length (in inches)				
Crabgrass	3	6	12	--	--
Crowfootgrass	--	--	6	--	12
Cutleaf evening primrose	--	--	3	--	6
Devilsclaw (unicorn plant)	--	3	6	--	--
Dwarf dandelion	12	--	--	--	--
Eastern manna grass	8	12	--	--	--
Eclipta	--	4	8	12	--
Fall panicum	4	--	6	--	12
Falsedandelion	--	20	--	--	--
Falseflax, smallseed	12	--	--	--	--
Fiddleneck	--	6	12	--	--
Field pennycress	6	12	--	--	--
Filaree	--	--	6	--	12
Fleabane, annual	6	20	--	--	--
Fleabane, hairy ( <i>Conyza bonariensis</i> )	--	--	6	--	10
Fleabane, rough	3	6	12	--	--
Florida pusley	--	--	4	--	6
Foxtail, giant, bristly, yellow	6	12	20	--	--
Foxtail, Carolina	10	--	--	--	--
Foxtail, green	12	--	--	--	--
Goatgrass, jointed	6	12	--	--	--
Goosegrass	--	3	6	--	12
Grain sorghum (milo)	6	12	20	--	--
Groundcherry	--	3	6	--	9
Groundsel, common	--	6	10	--	--
Hemp sesbania	--	2	4	6	8
Henbit	--	--	6	--	12

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WEED SPECIES	RATE (pounds per acre)				
	0.4	0.6	0.8	1.0	1.2
	Maximum height/length (in inches)				
Horseweed/ Marestalk ( <i>Conyza canadensis</i> )	--	6	12	--	18
Itchgrass	6	8	12	-	18
Jimsonweed	--	--	12	--	18
Johnsongrass, seedling	6	12	18	--	24
Junglerice	--	3	6	7	9
Knotweed	--	--	6	--	12
Kochia <sup>4</sup>	--	3 to 6	12	--	--
Lambsquarters	--	6	12	--	20
Little barley	6	12	--	--	--
London rocket	6	--	24	--	--
Mayweed	--	2	6	12	18
Morningglory, annual ( <i>Ipomoea spp</i> )	--	--	3	--	6
Mustard, blue	2	12	18	--	--
Mustard, tansy	6	12	18	--	--
Mustard, tumble	6	12	18	--	--
Mustard, wild	6	12	18	--	--
Nightshade, black	--	4	6	--	12
Nightshade, hairy	--	4	6	-	12
Oats	3	6	18	--	--
Pigweed species	--	12	18	24	--
Prickly lettuce	--	6	12	--	--
Purslane	--	--	3	--	6
Ragweed, common	--	6	12	--	18
Ragweed, giant	--	6	12	--	18
Red rice	--	--	4	--	--
Rye, volunteer/cereal <sup>2</sup>	6	18	18+	--	--
Ryegrass	--	--	6	--	12

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WEED SPECIES	RATE (pounds per acre)				
	0.4	0.6	0.8	1.0	1.2
	Maximum height/length (in inches)				
Sandbur, field	6	12	--	--	--
Sandbur, longspine	6	12	--	--	--
Shattercane	6	12	20	--	--
Shepherd's-purse	6	12	--	--	--
Sicklepod	--	2	4	--	8
Signalgrass, broadleaf	--	3	6	7	9
Smartweed, ladysthumb	--	--	6	--	9
Smartweed, Pennsylvania	--	--	6	--	9
Sowthistle, annual	--	--	6	--	12
Spanishneedles	--	--	6	--	12
Speedwell, purslane	12	--	--	--	--
Sprangletop	6	12	20	--	--
Spurge, prostrate	--	6	12	--	--
Spurge, spotted	--	6	12	--	--
Spurry, umbrella	6	--	--	--	--
Stinkgrass	--	12	--	--	--
Sunflower	12	18	--	--	--
Swinecress	--	5	12	--	--
Teaweed/ Prickly sida	--	2	4	--	6
Texas panicum	6	8	12	--	24
Thistle, Russian <sup>5</sup>	--	6	12	--	--
Velvetleaf	--	--	6	--	12
Virginia pepperweed	--	18	--	--	--
Waterhemp	--	--	6	--	12
Wheat <sup>2</sup>	6	12	18	--	--
Wheat, (overwintered)	--	6	12	--	18
Wild oats	3	6	18	--	--
Wild proso millet	--	6	12	--	18



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WEED SPECIES	RATE (pounds per acre)				
	0.4	0.6	0.8	1.0	1.2
	Maximum height/length (in inches)				
Witchgrass	--	12	--	--	--
Woolly cupgrass	--	6	12	--	--
Yellow rocket	--	12	20	--	--

- 1 For control of downy brome in no-till systems, use 0.6 pounds per acre.
- 2 Performance is better if application is made before this weed reaches the boot stage of growth.
- 3 Use 0.6 pounds per acre of this product to control wild buckwheat in the cotyledon to 2-leaf stage. Use 0.8 pounds per acre to control 2 to 4-leaf wild buckwheat. For improved control of wild buckwheat over 2 inches in size, use sequential treatments of 0.8 pounds followed by 0.8 pounds of this product per acre.
- 4 Do not treat kochia in the button stage.
- 5 Control of Russian thistle may vary based on environmental conditions and spray coverage. Whenever possible, a tank mixture with 2,4-D as described below may improve control.

**Annual Weeds -- Rates for 10 to 40 Gallons per Acre**

Apply 0.8 to 1.6 pounds of this product per acre. Use 0.8 pounds per acre if weeds are less than 6 inches tall, 1.2 pounds per acre if weeds are 6 to 12 inches tall and 1.6 pounds per acre if weeds are greater than 12 inches tall. These rates will provide control of weeds listed in the annual weed control tables when water carrier volumes are 10 to 40 gallons per acre for ground applications. Older, mature (hardened) annual weed species may require higher rates even if they meet the size requirements.

**Annual Weeds-- Tank Mixtures with 2,4-D or Dicamba or Tordon 22K**

0.3 to 0.4 pounds of this product plus 1/4 pound of dicamba or 1/2 pound of 2,4-D or 1 to 2 fluid ounces of Tordon 22K per acre will control the following weeds with the maximum height or length indicated:

6" -prickly lettuce, marestail/horseweed, morning glory, kochia (dicamba only) wild buckwheat (Tordon 22K only)

12" -- cocklebur, lambsquarters, pigweed, Russian thistle (2,4-D only).

0.4 pounds of this product plus 1/2 pound of 2,4-D per acre will control the following weeds when they are a maximum height or length of 6 inches: common ragweed, giant ragweed, Pennsylvania smartweed, and velvetleaf.

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Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures. Some crop injury may occur if dicamba or Tordon 22K is applied within 45 days of planting.

DO NOT APPLY DICAMBA TANK MIXTURES BY AIR IN CALIFORNIA.

**Annual Weeds - Hand-Held or High-Volume Equipment**

For control of weeds listed in the "ANNUAL WEEDS RATE TABLES", apply a 0.3 percent solution of this product to weeds less than 6 inches in height or runner length. Apply prior to seedhead formation in grass or bud formation in broadleaf weeds. For annual weeds over 6 inches tall, or unless otherwise specified, use a 0.6 percent solution.

For best results, use a 1.25 percent solution on harder-to-control perennials, such as Bermudagrass, dock, field bindweed, hemp dogbane, milkweed and Canada thistle.

When using application methods that result in less than complete coverage, use a 3.4 percent solution for annual and perennial weeds and a 3.4 to 6 percent solution for woody brush and trees.

**Annual Weeds -- Tank Mixtures with Atrazine for Fallow and Reduced Tillage Systems**

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

0.6 to 0.7 pounds of this product plus 1 to 2 pounds of atrazine per acre will control the following weeds: Barnyardgrass (requires 0.7 pounds for control), Downy brome, Green foxtail, Lambsquarters, Prickly lettuce, Tansy mustard, Pigweed, Field sandbur, Stinkgrass, Russian thistle, Volunteer wheat, Witchgrass and Kochia (add 1/8 pound of dicamba for control).

**PERENNIAL WEEDS RATE TABLE  
(Alphabetically by Species)**

Apply to actively growing perennial weeds.

**NOTE:** If weeds have been mowed or tilled, do not treat until plants have resumed active growth and have reached the specified stages.

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

Unless otherwise stated, allow 7 or more days after application before tillage. Best results are obtained when soil moisture is adequate for active weed growth.

## PERENNIAL WEEDS RATE TABLE

WEED SPECIES	RATE (LBS/A)	WATER VOLUME (GPA)	HAND-HELD % SOLUTION
<b>Alfalfa</b>	1.2 – 1.7	3 - 10	1.25
Make applications after the last hay cutting in the fall. Allow alfalfa to regrow to a height of 6 to 8 inches or more prior to treatment. Applications should be followed with deep tillage at least 7 days after treatment, but before soil freeze-up.			
<b>Alligatorweed</b>	3.5	3 – 20	0.8
For partial control, apply when most of the plants are in bloom. Repeat applications will be required to maintain control.			
<b>Anise (fennel)</b>	--	--	0.8 – 1.25
For hand held, apply as a spray-to-wet treatment. Optimum results are obtained when plants are treated at the bud to full-bloom stage of growth.			
<b>Bahiagrass</b>	2.3 – 3.8	3 – 20	1.25
Apply when most plants have reached the early head stage.			
<b>Bentgrass</b>	1.2	10 – 20	1.25
For suppression in grass seed production areas. For ground applications only. Ensure entire crown area has resumed growth prior to a fall application. Bentgrass should have at least 3 inches of growth. Tillage prior to treatment should be avoided. Tillage 7 to 10 days after application is specified for best results.			
<b>Bermudagrass</b>	2.3 – 3.8	3 – 20	1.25
For control, apply 3.8 pounds of this product per acre. For partial control, apply 2.3 pounds per acre. Treat when Bermudagrass is actively growing and seedheads are present. Retreatment may be necessary to maintain control.			
<b>Bermudagrass, water (knotgrass)</b>	0.8 – 1.2	5 – 10	1.25
Apply 2.3 pounds of this product in 5 to 10 gallons of water per acre. Apply when water Bermudagrass is 12 to 18 inches in length. Allow 7 or more days before tilling, flushing or flooding the field. Fall applications only: Apply 0.8 pounds of this product in 5 to 10 gallons of water per acre. Fallow fields should be tilled prior to application. Apply prior to frost on water Bermudagrass that is 12 to 18 inches in length			
This product is not registered in California for use on water Bermudagrass.			
<b>Bindweed, field</b>	0.5 – 3.8	3 – 20	1.25
Do not treat when weeds are under drought stress as good soil moisture is necessary for active growth.  For control, apply 2.9 to 3.8 pounds of this product per acre west of the Mississippi River and 2.3 to 2.9 pounds east of the Mississippi River. Apply when the weeds are at or beyond full bloom. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost.  Also for control, apply 1.6 pounds of this product plus 1/2 pound of dicamba in 10 to 20 gallons of water per acre. Do not apply by air.  For suppression on irrigated agricultural land, apply 0.8 to 1.6 pounds of this product plus 1 pound			

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WEED SPECIES	RATE (LBS/A)	WATER VOLUME (GPA)	HAND-HELD % SOLUTION
<p>of 2,4-D in 10 to 20 gallons of water per acre with ground equipment only. Applications should be made following harvest or in fall fallow ground when the bindweed is actively growing and the majority of runners are 12 inches or more in length. The use of at least one irrigation will promote active bindweed growth.</p> <p>For suppression, apply 0.4 pounds of this product plus 1/2 pound of 2,4-D in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications. Apply by air in fallow and reduced tillage systems only. Applications should be delayed until maximum emergence has occurred and when vines are between 6 to 18 inches in length.</p> <p><b>In California only</b>, apply 0.8 to 3.8 pounds of this product per acre. Actual rate needed for suppression or control will vary within this range depending on local conditions. For suppression on irrigated land where annual tillage is performed, apply 0.8 pounds of this product in 3 to 10 gallons of water per acre. Apply to bindweed that has reached a length of 12 inches or greater. Allow maximum weed emergence and runner growth. Allow 3 or more days after application before tillage.</p>			
<b>Bluegrass, Kentucky</b>	0.8 – 1.7	3 – 40	1.25
<p>Apply 1.6 pounds of this product in 10 to 40 gallons of water per acre when most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 0.8 to 1.2 pounds of this product in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height.</p>			
<b>Blueweed, Texas</b>	2.3 – 3.8	3 – 40	1.25
<p>Apply 2.9 to 3.8 pounds of this product per acre west of the Mississippi River and 2.3 to 2.9 pounds per acre east of the Mississippi River. Apply when plants are at or beyond full bloom. New leaf development indicates active growth. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost.</p>			
<b>Brackenfern</b>	2.3 – 3.5	3 – 40	0.8
<p>Apply to fully expanded fronds that are at least 18 inches long.</p>			
<b>Bromegrass, smooth</b>	0.8 – 1.7	3 – 40	1.25
<p>Apply 1.6 pounds ounces of this product in 10 to 40 gallons of water per acre when most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 0.8 to 1.2 pounds of this product in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height.</p>			
<b>Bursage, woolly-leaf</b>	--	3 – 20	1.25
<p>For control, apply 1.6 pounds of this product plus 1/2 pound of dicamba per acre. For partial control, apply 0.8 pounds of this product plus 1/2 pound of dicamba per acre. Apply when plants are producing new active growth which has been initiated by moisture for at least 2 weeks and when plants are at or beyond flowering.</p>			
<b>Canarygrass, reed</b>	1.7 – 2.3	3 – 40	1.25
<p>For best results, apply when most plants have reached the boot-to-head stage of growth.</p>			
<b>Cattail</b>	2.3 – 3.8	3 – 40	1.25
<p>Apply when most plants have reached the early head stage.</p>			
<b>Clover; red or white</b>	2.3 – 3.8	3 – 20	1.25

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WEED SPECIES	RATE (LBS/A)	WATER VOLUME (GPA)	HAND-HELD % SOLUTION
Apply when most plants have reached the early bud stage.			
Also for control, apply 0.4 to 0.8 pounds of this product plus 1/2 to 1 pound of 2,4-D in 3 to 10 gallons of water per acre.			
<b>Cogongrass</b>	2.3 – 3.8	10 – 40	1.25
Apply when cogongrass is at least 18 inches tall in late summer or fall. Due to uneven stages of growth and the dense nature of vegetation preventing good spray coverage, repeat treatments may be necessary to maintain control.			
<b>Dallisgrass</b>	2.3 – 3.8	3 – 20	1.25
Apply when most plants have reached the early head stage.			
<b>Dandelion</b>	2.3 – 3.8	3 – 40	1.25
Apply when most plants have reached the early bud stage of growth.			
Also for control, apply 0.4 pounds of this product plus 1/2 pound of 2,4-D in 3 to 10 gallons of water per acre.			
<b>Dock, curly</b>	2.3 – 3.8	3 – 40	1.25
Apply when most plants have reached the early bud stage of growth.			
Also for control, apply 0.4 to 0.8 pounds of this product plus 1/2 to 1 pound of 2,4-D in 3 to 10 gallons of water per acre.			
<b>Dogbane, hemp</b>	3.8	3 – 40	1.25
Apply when most plants have reached the late bud to flower stage of growth. Following crop harvest or mowing, allow weeds to regrow to a mature stage prior to treatment. For best results, apply in late summer or fall. For suppression, apply 0.4 pounds of this product plus 1/2 pound of 2,4-D in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial applications. Delay applications until maximum emergence of dogbane has occurred.			
<b>Fescue (except tall)</b>	2.3 – 3.8	3 – 20	1.25
Apply when most plants have reached the early head stage.			
<b>Fescue, tall</b>	0.8 – 2.3	3 – 40	1.25
Apply 2.3 pounds of this product per acre when most plants have reached boot-to-early seedhead stage of development.			
<b>Fall applications only:</b> Apply 0.8 pounds of this product in 3 to 10 gallons of water per acre. Apply to fescue in the fall when plants have 6 to 12 inches of new growth. A sequential application of 0.4 pounds per acre of this product will improve long-term control and control seedlings germinating after fall treatments or the following spring.			
<b>Guineagrass</b>	1.7 – 2.3	3 – 40	0.8
Apply when most plants have reached at least the 7-leaf stage of growth. Ensure thorough coverage when using hand-held equipment. In Texas and ridge of Florida, use 1.6 pounds for control. In the flatwoods region of Florida, 2.3 pounds is required for control.			
<b>Horsenettle</b>	2.3 – 3.8	3 – 20	1.25
Apply when most plants have reached the early bud stage.			

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<b>WEED SPECIES</b>	<b>RATE (LBS/A)</b>	<b>WATER VOLUME (GPA)</b>	<b>HAND-HELD % SOLUTION</b>
<b>Horseradish</b>	3.5	3 – 40	1.25
Apply when most plants have reached the late bud to flower stage of growth. For best results, apply in late summer or fall.			
<b>Iceplant</b>	--	--	1.25
Iceplant should be at or beyond the early bud stage of growth. Thorough coverage is necessary for best control.			
<b>Jerusalem artichoke</b>	2.3 – 3.8	3 – 20	1.25
Apply when most plants are in the early bud stage.			

WEED SPECIES	RATE (LBS/A)	WATER VOLUME (GPA)	HAND-HELD % SOLUTION
<b>Johnsongrass</b>	0.5 – 2.3	3 – 40	0.8
In annual cropping systems apply 0.8 to 1.6 pounds of this product per acre. Apply 0.8 pounds of this product in 3 to 10 gallons of water per acre. Use 1.6 pounds of this product when applying 10 to 40 gallons of water per acre. In non-crop, or areas where annual tillage (no-till) is not practiced, apply 1.6 to 2.3 pounds of this product in 10 to 40 gallons of water per acre.			
For best results, apply when most plants have reached the boot-to-head stage of growth or in the fall prior to frost. Allow 7 or more days after application before tillage. Do not tank mix with residual herbicides when using 0.8 pounds of this product per acre.			
For burndown of Johnsongrass, apply 0.4 pounds of this product in 3 to 10 gallons of water per acre before the plants reach a height of 12 inches. For this use, allow at least 3 days after treatment before tillage.			
<b>Spot treatment (partial control or suppression)</b> --Apply a 0.7 percent solution of this product when Johnsongrass is 12 to 18 inches in height. Coverage should be uniform and complete.			
<b>Kikuyugrass</b>	1.7 – 2.3	3 – 40	1.25
Spray when most kikuyugrass is at least 8 inches in height (3- or 4-leaf stage of growth). Allow 3 or more days after application before tillage.			
<b>Knapweed</b>	3.5	3 – 40	1.25
Apply when most plants have reached the late bud to flower stage of growth. For best results, apply in late summer or fall.			
<b>Lantana</b>	--	--	0.8
Apply at or beyond the bloom stage of growth. Use the higher application rate for plants that have reached the woody stage of growth.			
<b>Lespedeza</b>	2.3 – 3.8	3 – 20	1.25
Apply when most plants have reached the early bud stage.			
<b>Milkweed, common</b>	2.3	3 – 40	1.25
Apply when most plants have reached the late bud to flower stage of growth.			
<b>Muhly, wirestem</b>	0.8 – 1.7	3 – 40	1.25
Use 0.8 pounds of this product in 3 to 10 gallons of water per acre. Use 1.6 pounds of this product when applying 10 to 40 gallons of water per acre or in pasture, sod, or non-crop areas. Spray when the wirestem muhly is 8 inches or more in height. Do not till between harvest and fall applications or in the fall or spring prior to spring applications. Allow 3 or more days after application before tillage.			
<b>Mullein, common</b>	2.3 – 3.8	3 – 20	1.25
Apply when most plants are in the early bud stage.			
<b>Napiergrass</b>	2.3 – 3.8	3 – 20	1.25
Apply when most plants are in the early head stage.			

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WEED SPECIES	RATE (LBS/A)	WATER VOLUME (GPA)	HAND-HELD % SOLUTION
<b>Nightshade, silverleaf</b>	1.7	3 - 10	1.25
Applications should be made when at least 60 percent of the plants have berries. Fall treatments must be applied before a killing frost.			
<b>Nutsedge, purple or yellow</b>	0.5 - 2.3	3 - 40	0.8 - 1.25
Apply 2.3 pounds of this product per acre or apply a 0.8 to 1.25 percent solution for control of nutsedge plants and immature nutlets attached to treated plants. Treat when plants are in flower or when new nutlets can be found at rhizome tips. Nutlets that have not germinated will not be controlled and may germinate following treatment. Repeat treatments will be required for long-term control of ungerminated tubers.			
<b>Sequential applications:</b> 0.8 to 1.6 pounds of this product in 3 to 10 gallons of water per acre will also provide control. Make applications when a majority of the plants are in the 3 to 5-leaf stage (less than 6 inches tall). Repeat this application, as necessary, when newly emerging plants reach the 3 to 5-leaf stage. Subsequent applications will be necessary for long-term control.			
For partial control of existing plants, apply 0.4 to 1.6 pounds of this product in 3 to 40 gallons of water per acre. Treat when plants have 3 to 5 leaves and most are less than 6 inches tall. Repeat treatments will be required to control subsequent emerging plants or regrowth of existing plants.			
<b>Orchardgrass</b>	0.8 - 1.7	3 - 40	1.25
Apply 1.6 pounds of this product in 10 to 40 gallons of water per acre when most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation, apply 0.8 to 1.2 pounds of this product in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12 inches in height.			
Orchardgrass sods going to no-till corn: Apply 0.8 to 1.2 pounds of this product in 3 to 10 gallons of water per acre. Apply to orchardgrass that is a minimum of 12 inches tall for spring applications and 6 inches tall for fall applications. Allow at least 3 days following application before planting. A sequential application of atrazine will be necessary for optimum results.			
<b>Pampasgrass</b>	--	--	0.8 - 1.25
Pampasgrass should be at or beyond the boot stage of growth. Thorough coverage is necessary for best control.			
<b>Paragrass</b>	2.3 - 3.8	3 - 20	1.25
Apply when most plants are in the early head stage.			
<b>Phragmites</b>	2.3 - 3.8	3 - 40	0.8 - 1.25
For partial control, and best results, treat during late summer or fall when plants are actively growing and in full bloom. Treatment before or after this stage may lead to reduced control. Due to the dense nature of the vegetation, which may prevent good spray coverage or uneven stages of growth, repeat treatments may be necessary to maintain control. Visual control symptoms will be slow to develop.			
<b>Poison hemlock</b>	--	--	0.8 - 1.25
For hand held, apply as a spray-to-wet treatment. Optimum results are obtained when plants are treated at the bud to full-bloom stage of growth. Thorough coverage is necessary for best control.			



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WEED SPECIES	RATE (LBS/A)	WATER VOLUME (GPA)	HAND-HELD % SOLUTION
Pokeweed, common	1.2	3 - 40	1.25
Apply to actively growing plants up to 24 inches tall.			

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WEED SPECIES	RATE (LBS/A)	WATER VOLUME (GPA)	HAND-HELD % SOLUTION
<b>Quackgrass</b>	0.8 – 2.3	3 – 40	1.25
<p>In annual cropping systems, or in pastures and sods followed by deep tillage: Apply 0.8 pounds of this product in 3 to 10 gallons of water per acre. For 10 to 40 gallons of water per acre, apply 1.6 pounds of this product. Do not tank mix with residual herbicides when using the 0.8 pounds rate. Spray when quackgrass is 6 to 8 inches in height. Do not till between harvest and fall applications or in fall or spring prior to spring application. Allow 3 or more days after application before tillage. In pastures or sods, use a moldboard plow for best results.</p> <p>In pastures, sods or non-crop areas where deep tillage does not follow application: Apply 1.6 to 2.3 pounds of this product in 10 to 40 gallons of water per acre when the quackgrass is greater than 8 inches tall.</p>			
<b>Redvine</b>	0.6 – 1.7	5 – 10	1.25
<p>For suppression, apply 0.6 pounds of this product per acre at each of two applications 7 to 14 days apart or a single application of 1.6 pounds per acre. Apply specified rates in 5 to 10 gallons of water per acre. Apply in late September or early October to plants that are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least 1 week before a killing frost.</p>			
<b>Reed, giant</b>	--	--	1.25
<p>Best results are obtained when applications are made in late summer to fall.</p>			
<b>Ryegrass, perennial</b>	0.8 – 2.3	3 – 40	0.8
<p>In annual cropping systems apply 0.8 to 1.6 pounds of this product per acre. Apply 0.8 pounds of this product in 3 to 10 gallons of water per acre. Use 1.6 pounds of this product when applying 10 to 40 gallons of water per acre. In non-crop, or areas where annual tillage (no-till) is not practiced, apply 1.6 to 2.3 pounds of this product in 10 to 40 gallons of water per acre.</p> <p>For best results, apply when most plants have reached the boot-to-head stage of growth or in the fall prior to frost. Do not tank-mix with residual herbicides when using 1 quart of this product per acre.</p>			
<b>Smartweed, swamp</b>	2.3 – 3.8	3 – 40	1.25
<p>Apply when most plants have reached the early bud stage of growth. Also for control, apply 0.4 pounds of this product plus 1/2 pound of 2,4-D in 3 to 10 gallons of water per acre in the late summer or fall.</p>			
<b>Sowthistle, perennial</b>	1.2 - 2.3	3 – 40	1.25
<p>Apply when most plants are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage.</p>			
<b>Spurge, leafy</b>	--	3 – 10	1.25
<p>For suppression, apply 0.4 pounds of this product plus 1/2 pound of 2,4-D in 3 to 10 gallons of water per acre in the late summer or fall. If mowing has occurred prior to treatment, apply when most of the plants are 12 inches tall.</p>			
<b>Starthistle, yellow</b>	1.7	10 – 40	1.25
<p>Best results are obtained when applications are made during the rosette, bolting and early flower stages.</p>			

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WEED SPECIES	RATE (LBS/A)	WATER VOLUME (GPA)	HAND-HELD % SOLUTION
<b>Sweet potato, wild</b>	--	--	1.25
For partial control, apply to plants that are at or beyond the bloom stage of growth. Repeat applications may be required.			
<b>Thistle, artichoke</b>	--	--	1.25
For partial control, apply to plants that are at or beyond the bloom stage of growth. Repeat applications may be required.			
<b>Thistle, Canada</b>	1.7 - 2.3	3 - 40	1.25
Apply when most plants are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage.			
For suppression in the spring, apply 0.8 pounds of this product, or 0.4 pounds of this product plus 1/2 pound of 2,4-D, in 3 to 10 gallons of water per acre. Allow rosette regrowth to a minimum of 6 inches in diameter before treating. Applications can be made as long as leaves are still green and plants are actively growing at the time of application. Allow 3 or more days after application before tillage.			
<b>Timothy</b>	1.7 - 2.3	3 - 40	1.25
For best results, apply when most plants have reached the boot-to-head stage of growth.			
<b>Torpedograss</b>	2.9 - 3.8	3 - 40	1.25
For partial control, apply when most plants are at or beyond the seedhead stage of growth. Repeat applications will be required to maintain control. Fall treatments must be applied before frost.			
<b>Trumpetcreeper</b>	1.7	5 - 10	1.25
For partial control, apply in late September or October, to plants that are at least 18 inches tall and have been growing 45 to 60 days since the last tillage operation. Make applications at least 1 week before a killing frost.			
<b>Vaseygrass</b>	2.3 - 3.8	3 - 20	1.25
Apply when most plants are in the early head stage.			
<b>Velvetgrass</b>	2.3 - 3.8	3 - 20	1.25
Apply when most plants are in the early head stage.			
<b>Wheatgrass, western</b>	1.7 - 2.3	3 - 40	1.25
For best results, apply when most plants have reached the boot-to-head stage of growth.			

**WOODY BRUSH AND TREES RATE TABLE**  
(Alphabetically by Species)

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

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

Unless otherwise directed, apply broadcast treatments in 3 - 40 gallons of water per acre. Ensure thorough coverage when using hand-held equipment. Symptoms may not appear prior to frost or senescence with fall treatments.

Allow 7 or more days after application before tillage, mowing or removal. Repeat treatments may be necessary to control plants regenerating from underground parts or seed. Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Reduced performance may result if fall treatments are made following a frost.

**C = CONTROL**  
**PC = PARTIAL CONTROL**

#### WOODY BRUSH AND TREES RATE TABLE

WEED SPECIES	RATE (LBS/A)	HAND-HELD % SOLUTION	COMMENTS
Alder	2.3 - 3.5	0.8	C
Ash	1.7 - 3.8	0.8 - 1.25	PC
Aspen, quaking	1.7 - 2.3	0.8	C
Bearmat (Bearclover)	1.7 - 3.8	0.8 - 1.25	PC
Beech	1.7 - 3.8	0.8 - 1.25	PC
Birch	1.7 - 2.3	0.8	C
Blackberry	2.3 - 3.5	0.8	C
Make applications after plants have reached full leaf maturity. Best results are obtained when applications are made in late summer or fall. Applications may also be made after leaf drop and until a killing frost or as long as stems are green. After berries have set or dropped in late fall, blackberry can be controlled by applying a 0.6 percent solution of this product. For control of blackberries after leaf drop and until killing frost or as long as stems are green, apply 2.3 to 2.9 pounds of this product in 10 to 40 gallons of water per acre.			
Blackgum	1.7 - 3.8	0.8 - 1.25	C
Bracken	1.7 - 3.8	0.8 - 1.25	C
Broom; French, Scotch	--	0.8 - 1.25	C
Buckwheat, California	--	0.8 - 1.25	PC
Thorough coverage of foliage is necessary for best results.			
Cascara	1.7 - 3.8	0.8 - 1.25	PC
Catsclaw	--	0.8	PC
Ceanothus	1.7 - 3.8	0.8 - 1.25	PC
Chamise	1.7 - 3.8	0.8 - 1.25	C

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WEED SPECIES	RATE (LBS/A)	HAND-HELD % SOLUTION	COMMENTS
Thorough coverage of foliage is necessary for best results.			
Cherry; bitter, black, pin	1.7 – 2.3	0.8	C
Coyote brush	--	0.8 – 1.25	C
Apply when at least 50 percent of the new leaves are fully developed			
Dogwood	1.7 – 3.8	0.8 – 1.25	PC
Elderberry	1.7 – 2.3	0.8	C
Elm	1.7 – 3.8	0.8 – 1.25	PC
Eucalyptus	--	1.25	C
For control of eucalyptus resprouts, apply when resprouts are 6 to 12 feet tall. Ensure complete coverage. Avoid application to drought-stressed plants.			
Florida holly (Brazilian Peppertree)	1.7 – 3.8	0.8 – 1.25	PC
Gorse	1.7 – 3.8	0.8 – 1.25	PC
Hasardia	--	0.8 – 1.25	PC.
Thorough coverage of foliage is necessary for best results.			
Hawthorn	1.7 – 2.3	0.8	C
Hazel	1.7 – 2.3	0.8	C
Hickory	1.7 – 3.8	0.8 – 1.25	PC
Honeysuckle	2.3 – 3.5	0.8	C
Hornbeam, American	1.7 – 3.8	0.8 – 1.25	PC
Kudzu	2.9 – 3.8	1.25	C
Repeat applications may be required to maintain control.			
Locust, black	1.7 – 3.5	0.8 – 1.25	PC
Madrone resprouts	--	1.25	PC
Apply to resprouts that are 3 to 6 feet tall. Best results are obtained with spring/early summer treatments.			
Manzanita	1.7 – 3.8	0.8 – 1.25	PC
Maple, red	1.7 – 3.5	0.8	C
Apply a 0.8 percent solution when at least 50 percent of the new leaves are fully developed. For partial control, apply 1.6 to 3.1 pounds of this product per acre.			
Maple, sugar	--	0.8	C
Apply when at least 50 percent of the new leaves are fully developed.			
Monkey flower	--	0.8 – 1.25	PC

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WEED SPECIES	RATE (LBS/A)	HAND-HELD % SOLUTION	COMMENTS
Thorough coverage of foliage is necessary for best results.			
Oak; black, white	1.7 – 3.5	0.8 – 1.25	PC
Oak, post	2.3 – 3.5	0.8	C
Oak; northern	--	0.8	C
Apply when at least 50 percent of the new pin leaves are fully developed			
Oak; southern red	1.7 – 2.3	0.8	C
Persimmon	1.7 – 3.8	0.8 – 1.25	PC
Pine	1.7 – 3.8	0.8 – 1.25	C
Poison ivy/Poison oak	2.9 – 3.8	1.25	C
Repeat applications may be required to maintain control. Fall treatments must be applied before leaves lose green color.			
Poplar, yellow	1.7 – 3.8	0.8 – 1.25	PC
Redbud, eastern	1.7 – 3.8	0.8 – 1.25	C
Rose, multiflora	1.7	0.8	C
Treatments should be made prior to leaf deterioration by leaf-eating insects.			
Russian olive	1.7 – 3.8	0.8 – 1.25	PC
Sage, black	--	0.8	C
Thorough coverage of foliage is necessary for best results.			
Sage, white	1.7 – 3.8	0.8 – 1.25	PC
Sage brush, California--	--	0.8	C
Thorough coverage of foliage is necessary for best results			
Salmonberry	1.7 – 2.3	0.8	C
Salt-cedar	1.7 – 3.8	0.8 – 1.25	C
Sassafras	1.7 – 3.8	0.8 – 1.25	PC
Sourwood	1.7 – 3.8	0.8 – 1.25	PC
Sumac; poison, smooth, winged	1.7 – 3.8	0.8 – 1.25	PC
Sweetgum	1.7 – 2.3	0.8	C
Swordfern	1.7 – 3.8	0.8 – 1.25	PC
Tallowtree, Chinese --	--	0.8	C
Thorough coverage of foliage is necessary for best results			

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WEED SPECIES	RATE (LBS/A)	HAND-HELD % SOLUTION	COMMENTS
Tan oak resprouts	--	1.25	PC
Apply to resprouts that are less than 3 to 6 feet tall. Best results are obtained with fall applications.			
Thimbleberry	1.7 - 2.3	0.8	C
Tobacco, tree	--	0.8 - 1.25	PC
Trumpet creeper	1.7 - 2.3	0.8	C
Vine maple	1.7 - 3.8	0.8 - 1.25	PC
Virginia creeper	1.7 - 3.8	0.8 - 1.25	C
Waxmyrtle, southern	1.7 - 3.8	0.8 - 1.25	PC
Willow	2.3 - 3.5	0.8	C

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MEY Corporation warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. 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.

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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.

For over-the-top uses on Roundup Ready crop varieties crop safety and weed control performance are not warranted by MEY Corporation when this product is used in conjunction with "brown bag" or "bin run" seed saved from previous year's production and replanted.

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