

42750-258

4/10/2014

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7504P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Registration
 Number:
 42750-258

Date of Issuance:
 JUN 10 2014

NOTICE OF PESTICIDE:
 Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance: **Unconditional**

Name of Pesticide Product:
Glufosinate 280 SL

Name and Address of Registrant (include ZIP Code):
Albaugh, Inc.
P.O. Box 2127
Valdosta, GA 31604

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.

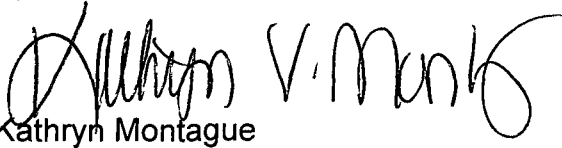
This product is registered in accordance with FIFRA sec 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.
2. Make the following label revisions
 - a. Revise the EPA Reg No. to 42750-258
 - b. Assure that the establishment number and net content are also added to the label.
3. Submit one copy of the revised final printed label 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 sec 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

If you have any questions regarding the Notice, please contact Grant Rowland at (703) 347-0254 or rowland.grant@epa.gov.

Signature of Approving Official:

 Kathryn Montague
 Product Manager 23
 Herbicide Branch
 Registration Division (7505P)

Date:
 JUN 10 2014

GLUFOSINATE 280 SL

A non-selective herbicide for post emergence broadcast use on canola, corn, cotton, and soybean designated as LibertyLink®. GLUFOSINATE 280 SL may be used for weed control in non LibertyLink® cotton when applied with a hooded sprayer in-crop. GLUFOSINATE 280 SL may also be applied as a broadcast burndown application before planting or prior to emergence of any conventional or transgenic variety of canola, corn, sweet corn, cotton, olive, rice, soybean or sugar beet. GLUFOSINATE 280 SL may be used for post emergence weed control in listed tree vine and berry crops. GLUFOSINATE 280 SL may also be applied for potato vine desiccation.

ACTIVE INGREDIENT

Glufosinate ammonium*	24.5%
Other Ingredients	75.5%
Total	100.0%

Equivalent to 2.34 pounds of active ingredient per U. S. gallon

KEEP OUT OF REACH OF CHILDREN

WARNING - AVISO

Si usted no entiende la etiqueta busque a alguien para que se la explique a usted en detalle. (If you do not understand the label find someone to explain it to you in detail.)

ACCEPTED

JUN 10 2014

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under **42750-288**

FIRST AID	
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN THE EYES:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Do not give any liquid to the person. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
HOT LINE NUMBER: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL CHEMTREC® TOLL FREE AT 1-800-424-9300.	
NOTE TO PHYSICIAN: If this product is ingested endotracheal intubation and gastric lavage should be performed as soon as possible followed by charcoal and sodium sulfate administration.	

EPA Reg. No. 42750-xxx

EPA Est. No. xxxxxx-xx-xx

NET CONTENTS: _____

MANUFACTURED BY:
Albaugh, Inc.
Ankeny, IA 50021

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

May be fatal if absorbed through skin. Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes on skin or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below. If you want more options follow the instructions for category C on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear

- For overhead exposure wear chemical resistant headgear
- Coveralls worn over short sleeved shirt and short pants
- Chemical resistant gloves such as barrier laminate butyl rubber >14 mils nitrile rubber >14 mils neoprene rubber >14 mils polyvinyl chloride (PVC) >14 mils or Viton® >14 mils
- Chemical resistant footwear plus socks
- Protective eyewear (goggles face shield or safety glasses).

Wear a chemical resistant apron when mixing/loading and cleaning equipment.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Mixers/loaders supporting aerial applications must wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC 21C) or a NIOSH approved respirator with any N R P or HE filter.

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.

ENGINEERING CONTROL STATEMENT

When handlers use closed systems enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170 240(d) (4 6)] the handler PPE requirements may be reduced or modified as specified in the WPS.

ENVIRONMENTAL HAZARDS

Do not apply directly to water or to areas where surface water is present. Do not apply to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

This pesticide is toxic to vascular plants and should be used strictly in accordance with the drift and run

off precautions on this label in order to minimize off site exposures.

Under some conditions this product may have a potential to run off to surface water or adjacent land. Where possible use methods which reduce soil erosion such as no till limited till and contour plowing these methods also reduce pesticide run off. Use of vegetation filter strips along rivers creeks streams wetlands etc. or on the downhill side of fields where run off could occur to minimize water runoff is recommended.

DIRECTIONS FOR USE

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

Do not use this product until you have read the entire label. Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe consult the agency responsible for pesticide regulation.

In the State of New York Only Not For Use In Nassau and Suffolk Counties.

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours with the exception of sweet corn irrigation activities which has a 4 day REI.

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:

1. For overhead exposure wear chemical resistant headgear
2. Coveralls worn over short sleeved shirt and short pants
3. Chemical resistant gloves such as barrier laminate butyl rubber >14 mils nitrile rubber >14 mils neoprene rubber >14 mils polyvinyl chloride (PVC) >14mils or Viton >14 mils
4. Chemical resistant footwear plus socks
5. Protective eyewear (goggles face shield or safety glasses)

IMPORTANT CROP SAFETY INFORMATION READ BEFORE USING THIS PRODUCT

GLUFOSINATE 280 SL may be applied as a burndown treatment prior to planting or prior to emergence of any conventional or transgenic variety of canola, sweet corn, corn, cotton, olive, rice, soybean or sugar beet.

Post emergence row crop applications of GLUFOSINATE 280 SL may be made only to crops tolerant to the active ingredient in this product. Albaugh, Inc. does not warrant the use of this product on crops other than those designated as LibertyLink® to safely withstand the application of GLUFOSINATE 280 SL.

The basis of selectivity of GLUFOSINATE 280 SL in crops is the presence of a gene in LibertyLink crops which results in a plant that is tolerant to the active ingredient of GLUFOSINATE 280 SL. Crops not containing this gene will not be tolerant to GLUFOSINATE 280 SL and severe crop injury and/or death may occur. Do not allow spray to contact foliage or green tissue of desirable vegetation other than crops tolerant to the active ingredient in this product.

GLUFOSINATE 280 SL may be applied to conventional or other transgenic cotton not tolerant to the active ingredient in GLUFOSINATE 280 SL using a hooded sprayer.

Applications to trees, vines and berries should avoid contact of GLUFOSINATE 280 SL solution spray drift or mist with green bark stems or foliage as injury may occur to trees berries and vines. Only trunks with callused mature brown bark should be sprayed unless protected from spray, contact by nonporous wraps grow tubes or waxed containers. Contact of GLUFOSINATE 280 SL with parts of trees berries or vines other than mature brown bark can result in serious damage.

PRODUCT INFORMATION

GLUFOSINATE 280 SL is a water soluble herbicide for application as a foliar spray for the control of a broad spectrum of emerged annual and perennial grass and broadleaf weeds in LibertyLink® canola, LibertyLink® corn, LibertyLink® cotton and LibertyLink® soybean and in trees vines and berries. GLUFOSINATE 280 SL may be applied for potato vine desiccation. GLUFOSINATE 280 SL may also be applied as a broadcast burndown application before planting or prior to emergence of any conventional or transgenic variety of canola, sweet corn, corn, cotton, olive, rice, soybean or sugar beet.

GLUFOSINATE 280 SL is only foliar active with little or no activity in soil. Weeds that emerge after application will not be controlled. Apply GLUFOSINATE 280 SL to actively growing weeds as described in the Weed Control Recommendations for Row Crops section to get maximum weed control. Uniform thorough spray coverage is necessary to achieve consistent weed control. Necrosis of leaves and young shoots occur within 2 to 4 days after application under good growing conditions.

- GLUFOSINATE 280 SL is rainfast four (4) hours after application to most weed species therefore rainfall within four (4) hours may necessitate retreatment or may result in reduced weed control.
- Applications should be made between dawn and two hours before sunset to avoid the possibility of reduced lambsquarters and velvetleaf control.
- Consult your local Cooperative Extension Service or Albaugh, Inc. Representative for guidelines on the optimum application timing for GLUFOSINATE 280 SL in your region.
- Weed control may be reduced if application is made when heavy dew fog and mist/rain are present or when weeds are under stress due to environmental conditions such as drought cool temperatures or extended periods of cloudiness.
- To maximize weed control do not cultivate from 5 days before an application to 7 days after an application.

ROTATIONAL CROP RESTRICTIONS*

Rotational crop planting intervals following application of GLUFOSINATE 280 SL are listed below Failure to comply with these restrictions may result in illegal residues in rotated crops.

Rotational Crop	Plant Back Interval (Minimum Rotational Crop Planting Interval from Last Application)
Canola, Sweet Corn, Corn, Cotton, Rice, Soybeans and Sugar beets	May be planted at any time
Root and Tuber Vegetables Leafy Vegetables Brassica Leafy Vegetables and Small Grains (barley buckwheat oats rye teosinte triticale and wheat)	70 Days

All Other Crops	180 Days
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*See *Application Directions for Potato Vine Desiccation* for Rotational Crop Restrictions specifically after GLUFOSINATE 280 SL applications to potatoes

Integrated Weed Management

The active ingredient in GLUFOSINATE 280 SL is glufosinate ammonium which is a glutamine synthetase inhibitor (Group 10). Integrated weed management guidelines promote an economically viable environmentally sustainable and socially acceptable weed control program regardless of the herbicide(s) used.

The highlights of a successful integrated weed management include:

1. Correctly identify weeds and look for trouble areas within field to identify resistance indicators
2. Rotate crops.
3. Start the growing season with clean fields.
4. Rotate herbicide modes of action by using multiple modes of action during the growing season and apply no more than two applications of a single herbicide mode of action to the same field in a two year period. One method to accomplish this is to rotate herbicide tolerant trait systems.
5. Apply listed rates of herbicides to actively growing weeds at the correct time with the right application.
6. Control any weeds that may have escaped the herbicide application.
7. Thoroughly clean field equipment between fields.

Contact your local agronomic advisor for more specific information on integrated weed management for your area.

WEED CONTROL FOR ROW CROPS*

Rates in ounces of formulated product per acre for the control of weeds at selected heights are shown in the weed control tables. In weed populations with mixed species apply at a rate needed for the species that requires the highest rate.

Broadleaf Weed Control

Maximum Weed Height or Diameter (inches)			Maximum Weed Height or Diameter (inches)		
Weed Species	22 fl. oz./A	29 fl. oz./A	Weed Species	22 fl. oz./A	29 fl. oz./A
Amaranth Palmer ²	NR	4	Morningglory smallflower ²	4	6
Anoda spurred	3	5	Morningglory tall ²	6	8
Beggarweed Florida	4	5	Mustard wild	4	6
Black medic	5	7	Nightshade black	4	6
Blueweed Texas	5	7	Nightshade eastern black	6	8
Buckwheat wild	6	7	Nightshade hairy	6	8
Buffalobur	6	7	Pennycress (stinkweed)	4	6
Burcucumber	6	10	Pigweed redroot ²	3	4
Catchweed bedstraw (cleavers)	2	4	Pigweed prostrate ²	3	4
Carpetweed	4	6	Pigweed spiny ²	3	4
Chickweed common	6	8	Pigweed smooth ²	3	4
Cocklebur common	6	14	Pigweed tumble ²	3	4
Copperleaf hophornbeam	4	6	Puncturevine	4	6
Cotton volunteer ¹	6	8	Purslane common	2	4
Croton tropic	3	5	Pusley Florida	5	3
Croton woolly	2	4	Ragweed common	6	10

Maximum Weed Height or Diameter (inches)			Maximum Weed Height or Diameter (inches)		
Weed Species	22 fl. oz./A	29 fl. oz./A	Weed Species	22 fl. oz./A	29 fl. oz./A
Eclipta	4	6	Ragweed giant	6	12
Devil s claw	2	4	Senna coffee	4	6
Fleabane annual	6	8	Sesbania hemp	6	8
Galinsoga hairy	6	8	Shepherd s Purse	6	8
Galinsoga small flower	6	7	Sicklepod (java bean)	4	6
Groundcherry cutleaf	4	5	Sida prickly	4	5 I
Geranium cutleaf	4	6	Smartweed Pennsylvania	6	14
Hempnettle	4	6	Smellmelon	4	6
Horsenettle Carolina ³	2	4	Sowthistle annual	6	8
Jimsonweed	6	10	Soybeans volunteer ¹	6	8
Knotweed	3	5	Spurge prostrate	2	4
Kochia ²	4	6	Spurge spotted	2	4
Ladysthumb	6	14	Starbur bristly	4	6
Lambsquarters common ²	4	6	Sunflower common	6	14
Mallow common	4	6	Sunflower prairie	3	5
Mallow Venice	6	8	Sunflower volunteer	6	10
Marestail	S	6 - 12	Thistle Russian ³	S	6 - 12
Marshelder annual	4	6	Velvetleaf ²	3	4
Morningglory entireleaf ²	6	8	Waterhemp common ²	NR	5
Morningglory ivyleaf ²	6	8	Waterhemp tall ²	NR	5
Morningglory pitted ²	6	8			
Morningglory sharppod ²	2	4			

In cotton GLUFOSINATE 280 SL may be applied at 29 fl oz/A three times per season

b Do not apply more than 22 fl oz/A post emergence in a single application to canola and corn

S Indicates suppression

- 1 Volunteer Liberty Link crops from the previous season will not be controlled
- 2 For applications to corn tank mixing with atrazine may enhance weed control in this species
- 3 May require sequential applications for control

NR Not Recommended

Grass Weed Control

Maximum Weed Height or Diameter (inches)			Maximum Weed Height or Diameter (inches)		
Weed Species	22 fl oz/A	29 fl oz/A ^{ab}	Weed Species	22 fl oz/A	29 fl oz/A ^{ab}
Barley volunteer ³	3	4	Millet wild proso	6	7
Barnyardgrass	3	5	Millet proso volunteer	6	7
Bluegrass annual	3	5	Oat wild ²	3	4
Corn volunteer ¹	10	12	Panicum fall	3	5
Crabgrass large ²	3	5	Panicum Texas	4	6
Crabgrass smooth ²	3	5	Rice red	4	6
Cupgrass woolly	6	12	Rice volunteer ¹	4	6
Foxtail bristly	6	8	Sandbur field ²	S	2
Foxtail giant	6	12	Shattercane	6	8
Foxtail green	6	12	Signalgrass broadleaf	3	5
Foxtail robust purple	6	8	Sprangletop	4	6
Foxtail yellow ²	3	4	Sorghum volunteer	6	8
Goosegrass ³	2	3	Stinkgrass	4	6
Johnsongrass Seedling	3	5	Wheat Volunteer ²	4	5
Junglerice	3	5	Witchgrass	4	6

In cotton GLUFOSINATE 280 SL may be applied at 29 fl. oz./A three times per season.

Do not apply more than 22 fl. oz./A of GLUFOSINATE 280 SL post emergence in a single application to canola and corn

S - Indicates suppression

¹ Volunteer LibertyLink crops from the previous season will not be controlled. A timely cultivation 7 to 10 days after an application and/or retreatment 10 to 21 days after the first application is recommended for controlling dense clumps of volunteer corn or rice

² For best control of yellow foxtail field sandbur crabgrass and wild oats treat prior to tiller initiation

³ A sequential application may be necessary for control

Biennial and Perennial Weeds**

For control of the biennial and perennial weeds listed below tank mix partners or sequential applications of GLUFOSINATE 280 SL are recommended (22 fl. oz./A followed by 22 fl. oz./A)

Alfalfa	Clover, Alsike	Nutsedge, purple*
Artichoke, Jerusalem	Clover, red	Nutsedge, yellow*
Bermudagrass	Dandelion	Orchardgrass
Bindweed, field	Dock, smooth	Poinsetta, wild
Bindweed, hedge	Dogbane hemp*	Pokeweed
Bluegrass, Kentucky	Goldenrod, gray*	Quackgrass*
Blueweed, Texas	Johnsongrass rhizome	Sowthistle, perennial
Bromegrass, smooth	Milkweed, common*	Thistle, bull
Burdock	Milkweed, honeyvine*	Thistle, Canada
Bursage, woolyleaf	Muhly, wirestem*	Timothy*
Chickweed Mouse ear	Nightshade, silverleaf	Wormwood, biennial

Suppression Only

**See the Application Directions for Use on Cotton section of this label for additional use rates.

APPLICATION AND MIXING PROCEDURES

Do not use flood jet nozzles controlled droplet application equipment or air assisted spray equipment. Uniform thorough spray coverage is important to achieve consistent weed control.

Ground application

Refer to the *Rate Tables* for proper application rates. DO NOT apply when winds are gusty or when conditions will favor movement of spray particles off the desired spray target. To avoid drift and insure consistent weed control apply GLUFOSINATE 280 SL with the spray boom as low as possible while maintaining a uniform spray pattern. GLUFOSINATE 280 SL should be applied broadcast in a minimum of 10 gallons of water per acre using a minimum spray pressure of 40 psi and a maximum ground speed of 10 mph. The use of 80 degree or 110 degree flat fan nozzles is highly recommended for optimum spray coverage and canopy penetration. Application of the spray at a 45 degree angle forward will result in better spray coverage. Under dense weed/crop canopies a broadcast rate of 15-20 gallons of water per acre should be used so that thorough spray coverage will be obtained. DO NOT use raindrop nozzles. Boom height should be based on nozzle manufacturer recommendations. See the *Spray Drift Management* section of this label for additional information on proper application of GLUFOSINATE 280 SL.

Aerial Application

Poor coverage will result in reduced weed control. For optimal weed control apply GLUFOSINATE 280 SL in a minimum of 10 gallons per acre. Apply GLUFOSINATE 280 SL using nozzles and pressures that generate MEDIUM (about 300 to 400 microns) spray droplets category as reported by the nozzle manufacturer and in accordance to ASABE S 572 based upon the selected air speed. Do not use nozzles and pressures that result in COARSE sprays FINE sprays should also be avoided to minimize spray drift risk. See the *Spray Drift Management* section of this label for additional information on proper application of GLUFOSINATE 280 SL.

COMPATIBILITY TESTING

If GLUFOSINATE 280 SL is to be mixed with pesticide products not listed on this label test the compatibility of the intended tank mixture prior to mixing the products in the spray tank. The following procedure assumes a spray volume of 25 gallons per acre. For other spray volumes adjust the amount of the water used accordingly Check compatibility as follows:

1. Place 1.0 pint of water from the source that will be used to prepare the spray solution in a clear 1 quart jar.
2. For each pound of a dry tank mix partner to be applied per acre add 1.5 teaspoons to the jar.
3. For each 16 fl. oz. of a liquid tank mix partner to be applied per acre add 0.5 teaspoon to the jar.
4. For each 16 fl. oz. of GLUFOSINATE 280 SL to be applied per acre add 0.5 teaspoon to the jar.
5. After adding all the ingredients place a lid on the jar and tighten. Invert 10 times to mix.
6. Let the mixture stand for 15 minutes and evaluate the solution for uniformity and stability. Look for separation large flakes precipitates gels heavy oily film on the jar or other signs of incompatibility. If the tank mix partners are not compatible do not use the mixture in a spray tank.
7. After compatibility testing is complete dispose of any pesticide wastes in accordance with the *Storage and Disposal* section of this label.

MIXING INSTRUCTIONS

Tank Mix Instructions

GLUFOSINATE 280 SL may be applied in tank mix combinations with labeled rates of other products provided these other products are labeled for the timing and method of application for the crop to be treated. The tank mix partner must be used in accordance with the label limitations and precautions No label dosage rates may be exceeded GLUFOSINATE 280 SL cannot be mixed with any product containing a label prohibition against such mixing Refer to the specific crop section for rates and other restrictions

GLUFOSINATE 280 SL must be applied with properly calibrated and clean equipment GLUFOSINATE 280 SL is formulated to mix readily in water. Prior to adding GLUFOSINATE 280 SL to the spray tank ensure that the spray tank is thoroughly clean particularly if an herbicide with the potential to injure crops was previously used (see *Cleaning Instructions*)

Mix GLUFOSINATE 280 SL with water to make a finished spray solution as follows:

1. Fill the spray tank half full with water.
2. Start agitation.
3. If mixing with a flowable/wettable powder tank mix partner. Prepare a slurry of the proper amount of the product in a small amount of water. Add the slurry to the spray tank.
4. Add the appropriate amount of ammonium sulfate (AMS) to the spray tank.
5. If mixing with a liquid tank mix partner add the liquid mix partner next.
6. Complete filling the spray tank with water.
7. Add the proper amount of GLUFOSINATE 280 SL and continue agitation.
8. If foaming occurs use a silicone based antifoam agent.

Ensure that all spray system lines including pipes, booms, etc. have the correct concentration of spray solution by flushing out the spray system lines before starting the crop application.

If tank mix partners recommended on this label are added maintain good agitation at all times until contents of the tank are sprayed. If the spray mixture is allowed to settle thorough agitation is required to re-suspend the mixture before spraying is resumed. Keep bypass line on or near bottom of tank to minimize foaming Screen size in nozzles or line strainers must be 50 mesh or larger.

CLEANING INSTRUCTIONS

Before using GLUFOSINATE 280 SL thoroughly clean bulk storage tank refillable tank nurse tanks spray tank lines and filter particularly if an herbicide with the potential to injure crops was previously used. Equipment should be thoroughly rinsed using a commercial tank cleaner.

After using GLUFOSINATE 280 SL triple rinse the spray equipment and clean with a commercial tank cleaner before using for crops not labeled LibertyLink. Make sure any rinsate or foam is thoroughly removed from spray tank and boom. Rinsate may be disposed following the pesticide disposal directions on this label

SPRAY DRIFT MANAGEMENT

Spray drift may result in injury to non target crops or vegetation. To avoid spray drift do not apply when wind speed is greater than 10 MPH or during periods of temperature inversions. Do not apply when weather conditions wind speed or wind direction may cause spray drift to non target areas.

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.

1. All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.
2. For all non aerial applications wind speed must be measured adjacent to the application site on the upwind side immediately prior to application.

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

Do not apply under circumstances where possible drift to unprotected persons or to food forage or other plantings that might be damaged or crops thereof rendered unfit for sale use or consumption can occur

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

- The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor
- 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. The applicator should be familiar with and take into account the information covered in the *Aerial Drift Reduction Advisory Information*

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

Information on 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 *Wind Temperature and Humidity* and *Temperature Inversions* below)

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR

Controlling Droplet Size

- Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. 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 parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from 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 the largest droplets and the lowest drift.
- 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 exposure of 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 drops etc).

Wind - Drift potential is lowest between wind speeds of 2-10mph. However many factors including droplet size and equipment type determine drift potential at any given speed. Applications should be avoided below 2 miles per hour 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 spray 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. Avoid spraying during conditions of low humidity and/or high temperatures.

Temperature Inversions - Do not make aerial or ground applications into areas of temperature inversions. 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

APPLICATION DIRECTIONS FOR BURNDOWN USE

GLUFOSINATE 280 SL may be applied as a burndown treatment prior to planting or prior to emergence of any conventional or transgenic variety of canola, corn, cotton, rice, soybean or sugar beet. Apply a minimum of 29 fl. oz./A of GLUFOSINATE 280 SL for burndown of existing weeds just prior to planting or prior to emergence of canola, corn, cotton, rice, soybean or sugar beets. For best results apply to emerged young actively growing weeds. Warm temperatures high humidity and bright sunlight improve the performance of GLUFOSINATE 280 SL. Weed control may be reduced when applications are made to weeds under stress due to drought or cool temperatures.

- In cotton if environmental conditions prevent timely applications a single application may be made of up to 43 fl. oz./A of GLUFOSINATE 280 SL. If more than 29 fl. oz./A are used in any single application the season total may not exceed 72 fl. oz./A including all application timings.
- In soybean if environmental conditions prevent timely applications a single application may be made of up to 36 fl. oz./A of GLUFOSINATE 280 SL. If 29-36 fl. oz./A are used in a single burndown application, one additional in season application may be made at up to 29 fl. oz./A. The season total may not exceed 65 fl. oz./A including all application timings.
- In canola, corn, rice and sugar beets, if environmental conditions prevent timely applications a single application may be made of up to 36 fl. oz./A of GLUFOSINATE 280 SL. No additional applications of GLUFOSINATE 280 SL may be made post emergence to the crop during the growing season.
- In Rice following a burndown application, there must be a minimum 7 day holding period after flooding of the field.

	Burndown	In Season Applications (LibertyLink® varieties only)	Season Max
Cotton Use Pattern 1	29 fl. oz./A	2 applications at 22-29 fl. oz./A*	87 fl. oz./A
Cotton Use Pattern 2	30-43 fl. oz./A	1 application at 22-29 fl. oz./A*	72 fl. oz./A
Soybean Use Pattern	29-36 fl. oz./A	1 application at 22-29 fl. oz./A**	65 fl. oz./A
Canola Corn Rice Sugar beets	29-36 fl. oz./A	None	36 fl. oz./A

* LibertyLink cotton OR with hooded sprayer for non LibertyLink varieties (see Cotton use directions)
 ** LibertyLink soybeans only (See Soybean use directions)

APPLICATION DIRECTIONS FOR USE ON SUGAR BEETS

THOROUGH SPRAY COVERAGE IS VERY IMPORTANT. GLUFOSINATE 280 SL works best when weeds are actively growing. A cultivation may be made at least 5 days before a GLUFOSINATE 280 SL application or 5 days after a GLUFOSINATE 280 SL application.

APPLICATION TIMING

Applications of GLUFOSINATE 280 SL on sugar beets may be made from the cotyledon stage up to the 10 leaf stage of the sugar beet. GLUFOSINATE 280 SL is a foliar active material with no soil residual activity. For best results apply to emerged young actively growing weeds. Weeds that emerge after application will not be controlled GLUFOSINATE 280 SL will have an effect on weeds that are larger than the recommended leaf stage however speed of activity and control may be reduced. Weed control may be reduced if application is made when heavy dew fog and mist/rain are present or when weeds are under stress due to drought cool temperatures or extended periods of cloudiness GLUFOSINATE 280 SL is rainfast 4 hours after application therefore rainfall within 4 hours may necessitate retreatment.

For best weed control and sugar beet yield GLUFOSINATE 280 SL applications should begin when weeds are up to 1 inch in height or diameter. Repeat applications should be made when newly germinated weeds again reach 1 inch in height or diameter. Refer to the *Rate Tables for Weed Control In Sugar Beets* for selection of the proper rate dependent upon the weed species present and size. A repeat application of GLUFOSINATE 280 SL or a tank mix application with a residual herbicide selected from the tank mix partners listed on this label will be needed to control weeds that have not yet emerged at the time of application.

RESTRICTIONS TO THE DIRECTIONS FOR USE ON SUGAR BEETS

1. DO NOT apply more than 30 fl. oz./A of GLUFOSINATE 280 SL in one application and DO NOT apply more than 60 fl. oz./A of GLUFOSINATE 280 SL on the sugar beet crop per growing season
2. DO NOT apply GLUFOSINATE 280 SL within 60 days of harvesting sugar beets
3. DO NOT plant rotation crops in a field treated with GLUFOSINATE 280 SL within 120 days after the last application of this product with the exception of wheat barley buckwheat millet oats rye sorghum and triticale which may be planted 70 days after the last application of this product. Corn soybeans canola and sugar beets tolerant to the active ingredient of GLUFOSINATE 280 SL may be planted at any time
4. DO NOT graze the treated crop or cut for hay
5. DO NOT add surfactants Antifoams or drift control agents may be added if needed
6. DO NOT apply GLUFOSINATE 280 SL if sugar beets show injury from prior herbicide applications or environmental stress (drought, excessive rainfall, etc.)
7. DO NOT apply this product through any type of irrigation system

RATE TABLES FOR WEED CONTROL IN SUGAR BEETS

The rate of GLUFOSINATE 280 SL in fluid ounces (pints) of formulated product per acre to be used for the control of weeds at selected heights are shown in the following tables In weed populations with mixed species apply the rate needed for all species present

Grass Weeds Controlled with GLUFOSINATE 280 SL

Weed Species	Growth Stage of Weed* (Maximum Height)		Comments on Weed Growth Stage/ Application Timing/ Number of Applications
	15 fl. oz./A (0.9 Pt/A)	20 fl. oz./A (1.25 Pt/A)	
Barley volunteer	1 - 2 leaf (2)	3 leaf (3)	Multiple applications may be required
Barnyardgrass	1 - 3 leaf (2)	4 - 5 leaf (3)	Maximum of 1 tiller
Corn volunteer	1 - 2 leaf (3)	3 - 4 leaf (6)	
Crabgrass large	1 - 3 leaf (2)	4 - 5 leaf (3)	Maximum of 1 tiller
Crabgrass smooth	1 - 3 leaf (2)	4 - 5 leaf (3)	Maximum of 1 tiller
Cupgrass woolly	1 - 5 leaf (4)	(8)	
Foxtail giant	1 - 4 leaf (3)	5 - 6 leaf (4)	Maximum of 2 tillers
Foxtail green	1 - 4 leaf (3)	5 - 6 leaf (4)	Maximum of 2 tillers

Foxtail yellow	1 - 3 leaf (1)	4 leaf (2)	Apply prior to tillering
Millet volunteer proso	1 - 3 leaf (2)	4 - 5 leaf (3)	Maximum of 1 tiller
Millet wild proso	1 - 3 leaf (2)	4 - 5 leaf (3)	Maximum of 1 tiller
Oat wild	1 - 2 leaf (2)	3 leaf (3)	Maximum of 1 tiller
Panicum fall	1 - 3 leaf (2)	4 - 5 leaf (3)	Maximum of 1 tiller
Panicum Texas	1 - 3 leaf (2)	4 - 5 leaf (3)	Maximum of 1 tiller
Sandbur field	—	1 - 4 leaf (2)	Apply prior to tillering
Wheat volunteer	1 - 2 leaf (2)	3 leaf (3)	Maximum of 1 tiller

*Apply up to 30 fl. oz./A (1.88 pt/A) if weeds exceed the growth stage shown in the table

For improved control of heavy populations or larger than recommended volunteer wheat volunteer barley yellow foxtail and wild oats GLUFOSINATE 280 SL can be tank mixed with Assure® II Herbicide Poast® Herbicide Prism® Herbicide or Select® 2EC Herbicide.

Perennial Weeds Controlled by GLUFOSINATE 280 SL

Weed Species	Growth Stage of Weed* (Maximum Height/Diameter)		Comments on Number of Applications
	15 fl. oz./A (0.9 Pt/A)	20 fl. oz./A (1.25 Pt/A)	
Quackgrass	—	1 - 3 leaf (3)	Multiple applications required
Sowthistle perennial	—	1 - 4 leaf (3)	Multiple applications required
Thistle Canada	—	1 - 4 leaf (3)	Multiple applications required

*Apply up to 30 fl oz/A (1 88 pt/A) if weeds exceed the growth stage shown in the table

Broadleaf Weeds Controlled by GLUFOSINATE 280 SL

Weed Species	Growth Stage of Weed* (Maximum Diameter)	
	15 fl. oz./A (0.9 pt/A)	20 fl. oz./A (1.25 pt/A)
Buckwheat wild	1 - 4 leaf (2)	5 - 6 leaf (3)
Buffalobur	1 - 4 leaf (2)	5 - 6 leaf (3)
Carpetweed	—	1 - 4 leaf (2)
Chickweed common	1 - 4 leaf (2)	5 - 6 leaf (3)
Cocklebur common	1 - 6 leaf (3)	7 - 8 leaf (5)
Kochia	(1)	(2)
Ladysthumb	1 - 2 leaf (1)	3 - 4 leaf (3)
Lambsquarter common	1 - 2 leaf (1)	4 - 5 leaf (3)
Mallow Venice	1 - 4 leaf (2)	5 - 6 leaf (3)
Marshelder	1 - 2 leaf (1)	3 - 4 leaf (2)
Mustard wild	1 - 4 leaf (2)	5 - 6 leaf (3)
Nightshade eastern black	1 - 4 leaf (2)	5 - 6 leaf (3)
Pigweed prostrate	(1)	(3)
Pigweed red root	1 - 2 leaf (1)	3 - 4 leaf (3)
Pigweed smooth	1 - 2 leaf (1)	3 - 4 leaf (3)
Pigweed spiny	1 - 2 leaf (1)	3 - 4 leaf (3)
Purslane common	(1)	(2)
Ragweed common	1 - 6 leaf (3)	7 - 8 leaf (5)
Ragweed giant	1 - 4 leaf (2)	5 - 6 leaf (3)
Shepard s purse	1 - 4 leaf (2)	5 - 6 leaf (3)
Smartweed Pennsylvania	1 - 2 leaf (1)	3 - 4 leaf (3)
Sowthistle annual	1 - 4 leaf (2)	5 - 6 leaf (3)
Sunflower common	1 - 6 leaf (3)	7 - 8 leaf (5)
Thistle Russian	(1)	(2)
Velvetleaf	1 - 2 leaf (1)	3 - 4 leaf (3)

*Apply up to 30 fl. oz./A (1.88 pt/A) if weeds exceed the growth stage shown in the table.

APPLICATION DIRECTIONS FOR USE ON CANOLA

Apply GLUFOSINATE 280 SL only to canola labeled as LibertyLink. Uniform thorough spray coverage is necessary to achieve consistent weed control.

APPLICATION RATE AND TIMING

For best results apply to emerged young actively growing weeds. Warm temperatures high humidity and bright sunlight improve the performance of GLUFOSINATE 280 SL. Weed control may be reduced when applications are made to weeds under stress due to drought or cool temperatures. For optimal yield early season weed removal is important.

Applications of GLUFOSINATE 280 SL on canola may be made from the cotyledon stage up to the early bolting stage of the canola. Slight discoloration of the canola may be visible after application. This effect is temporary and will not influence crop growth maturity or yield.

Apply GLUFOSINATE 280 SL at 22 fl. oz./A per application. A second application of GLUFOSINATE 280 SL may be needed to control weeds that have not yet emerged at the time of application.

RESTRICTIONS TO THE DIRECTIONS FOR USE ON CANOLA

- DO NOT use on canola in the states of Alabama, Delaware, Georgia, Kentucky, Maryland, New Jersey, North Carolina, South Carolina, Tennessee, Virginia and West Virginia.
- DO NOT apply more than two applications of GLUFOSINATE 280 SL per growing season. Sequential applications should be at least 10 days apart.
- DO NOT apply GLUFOSINATE 280 SL within 65 days of harvesting canola.
- DO NOT apply more than 44 fl. oz./A of GLUFOSINATE 280 SL per growing season.
- If GLUFOSINATE 280 SL was used in a burndown application no post emergence applications may be applied to the crop.
- DO NOT graze the treated crop or cut for hay.
- DO NOT apply GLUFOSINATE 280 SL if canola shows injury from prior herbicide applications or environmental stress (drought excessive rainfall, etc.).
- DO NOT apply this product through any type of irrigation system.
- Refer to the *Rotational Crop Restrictions* section under the Information heading of this label for the appropriate rotational crop plant back intervals.

SPRAY ADDITIVES

GLUFOSINATE 280 SL must be applied with ammonium sulfate (AMS). Use only fine feed grade or spray grade AMS at 3 pounds per acre. Anti foams or drift control agents may be added if needed. Use of additional surfactants or crop oils may increase risk of crop response.

CANOLA TANK MIX INSTRUCTIONS

GLUFOSINATE 280 SL at 22 fl. oz./A plus AMS may be used in tank mix combination with certain herbicides for improved control of larger than labeled grasses GLUFOSINATE 280 SL may be applied in tank mix combinations with labeled rates of other products provided these other products are labeled for the timing and method of application for the canola to be treated. The tank mix partner must be used in accordance with the label limitations and precautions. No label dosage rates may be exceeded GLUFOSINATE 280 SL cannot be mixed with any product containing a label prohibition against such

mixing. The AMS rate may be reduced to 1.5 lb/A when GLUFOSINATE 280 SL is tank mixed with a reduced rate of one of the grass herbicides specified below.

APPLICATION RATE AND TIMING FOR CANOLA FOR TRANSGENIC SEED PROPAGATION

Up to three applications of Liberty 280 SL Herbicide at up to 22 fl oz/A per application may be made to canola for transgenic seed propagation. Applications may be made from the cotyledon stage up to the early bolting stage (e.g., BBCH 18 – 30, between just prior to stem elongation/bolting, eight or more leaves and beginning of stem elongation, no internodes).

RESTRICTIONS TO THE DIRECTIONS FOR CANOLA FOR TRANSGENIC SEED PROPAGATION

DO NOT apply more than three applications of Liberty 280 SL Herbicide at up to 22 fl oz/A per application per growing season.

DO NOT apply more than 66 fl oz/A of Liberty 280 SL Herbicide per growing season.

DO NOT apply Liberty 280 SL Herbicide beyond the early bolting stage or within 65 days of harvesting canola seed.

DO NOT use treated canola seed for food, feed or oil purposes.

DO NOT apply Liberty 280 SL Herbicide if canola shows injury from prior herbicide applications or environmental stress (drought, excessive rainfall, etc.).

DO NOT apply this product through any type of irrigation system

TANK MIX PARTNERS FOR LIBERTY ON INVIGOR LIBERTYLINK CANOLA

Tank Mix Partner	Rate (fl oz./A)
Assure® II	4 - 5 fl. oz./A
Poast®	6 - 8 fl. oz./A
Select® 2EC	2 - 3 fl. oz./A
Select Max™	4 - 6 fl. oz./A

APPLICATION DIRECTIONS FOR USE ON SWEET CORN

APPLICATION TIMING FOR SWEET CORN

Applications for GLUFOSINATE 280 SL on sweet corn may be made from emergence until sweet corn is 24" tall or in the V 7 stage of growth (i.e. 7 developed collars whichever comes first). Apply at a rate of 20 fl. oz./A. GLUFOSINATE 280 SL must be applied with ammonium sulfate (AMS) for use on sweet corn. Two applications of GLUFOSINATE 280 SL can be made to sweet corn in a growing season.

RESTRICTIONS TO THE DIRECTIONS FOR USE ON SWEET CORN

- DO NOT apply GLUFOSINATE 280 SL within 50 days of harvesting sweet corn ears and within 55 days of harvesting stover.
- DO NOT apply more than 40 fl. oz./A of GLUFOSINATE 280 SL on sweet corn per growing season.
- DO NOT apply more than two applications of GLUFOSINATE 280 SL to the sweet corn crop. Sequential applications should be at least 10 days apart.
- If GLUFOSINATE 280 SL was used in a burndown application, no post emergence applications may

be applied to the crop.

- DO NOT use nitrogen solutions as spray carriers.
- DO NOT apply GLUFOSINATE 280 SL if corn shows injury from prior herbicide applications or environmental stress (drought excessive rainfall, etc.).
- DO NOT apply this product through any type of irrigation system.

A silicone based antifoam agent may be added if needed.

Refer to the *Rotational Crop Restrictions* section under the Information heading of this label for the appropriate rotational crop plant back intervals.

See Application Directions for Use on Field Corn and Silage Corn for Application Methods Mixing Instructions and Weed control Tables.

Tank Mix Instructions for use on Sweet Corn

GLUFOSINATE 280 SL may be tankmixed with Laudis® Herbicide, Callisto™, Atrazine, or Permit®. When using GLUFOSINATE 280 SL in tankmix combinations carefully follow the Directions for Use labeling of the selected partner.

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APPLICATION DIRECTIONS FOR USE ON FIELD CORN AND SILAGE CORN

Apply GLUFOSINATE 280 SL only to corn labeled as LibertyLink Uniform thorough spray coverage is necessary to achieve consistent weed control.

APPLICATION RATE AND TIMING

For best results apply to emerged young actively growing weeds. Warm temperatures high humidity and bright sunlight improve the performance of GLUFOSINATE 280 SL. Weed control may be reduced when applications are made to weeds under stress due to drought or cool temperatures For optimal yield early season weed removal is important.

Applications of GLUFOSINATE 280 SL on corn may be made with over the top broadcast or drop nozzles from emergence until corn is 24 inches tall or in the V 7 stage of growth (i. e. 7 developed collars whichever comes first). For corn 24 inches to 36 inches tall only apply GLUFOSINATE 280 SL using ground application and drop nozzles and avoid spraying into the whorl or leaf axils of the corn stalks. Applications of GLUFOSINATE 280 SL following the use of soil applied insecticides will not injure corn.

Apply GLUFOSINATE 280 SL at 22 fl. oz./A per application. A second application of GLUFOSINATE 280 SL or a tank mix application with a residual herbicide will be needed to control weeds that have not yet emerged at the time of application.

RESTRICTIONS TO THE DIRECTIONS FOR USE ON FIELD CORN AND SILAGE CORN

- DO NOT apply GLUFOSINATE 280 SL within 60 days of harvesting corn forage and within 70 days of harvesting corn grain and corn fodder.
- DO NOT apply more than two applications of GLUFOSINATE 280 SL to the corn crop. Sequential applications should be at least 10 days apart.
- DO NOT apply more than 44 fl. oz./A of GLUFOSINATE 280 SL on corn per growing season.
- If GLUFOSINATE 280 SL was used in a burndown application no post emergence applications may be applied to the crop.
- DO NOT use nitrogen solutions as spray carriers.
- DO NOT apply GLUFOSINATE 280 SL if corn shows injury from prior herbicide applications or environmental stress (drought excessive rainfall, etc.).
- DO NOT apply this product through any type of irrigation system.

A silicone based antifoam agent may be added if needed.

Refer to the *Rotational Crop Restrictions* section under the Information heading of this label for the appropriate rotational crop plant back intervals.

SPRAY ADDITIVES

For corn and sweet corn GLUFOSINATE 280 SL must be applied with ammonium sulfate (AMS). It is recommended to use only fine feed grade or spray grade AMS at 3 lbs. per acre (17 lbs./100 gallons). When temperatures exceed 85° F the rate of AMS can be reduced to 1.5 lbs per acre (8.5 lbs./100 gallons) to reduce potential leaf burn.

Use of additional surfactants or crop oils may increase risk of crop response.

CORN TANK MIX INSTRUCTIONS

Certain herbicide tank mixes may aid in the performance of GLUFOSINATE 280 SL. No additional surfactant is needed with any tank mix partner GLUFOSINATE 280 SL may be applied in tank mix combinations with labeled rates of other products provided these other products are labeled for the timing and method of application for the corn to be treated. The tank mix partner must be used in accordance with the label limitations and precautions. No label dosage rates may be exceeded GLUFOSINATE 280 SL cannot be mixed with any product containing a label prohibition against such mixing.

TANKMIX PARTNERS FOR GLUFOSINATE 280 SL ON LIBERTY LINK CORN

2,4-D	Halex GT	Pendimethalin ¹
acetochlor	Hornet [®] WDG	Permit [®]
Aim [™] ²	Impact [®]	Python [®] WDG
Atrazine	Laudis [®]	s metolachlor ²
Callisto [™]	Lexai* ²	Spirit [®]
Camix ^{®2}	Lumax ^{®2}	Status [®]
Capreno [®]	Metolachlor ²	Yukon [®]
Distinct [™]	nicosulfuron	Zemax
Guardsman Max [®]	NorthStar [™]	

¹ Tankmixing with pendimethalin may result in reduced control of barnyardgrass fall panicum field sandbur-yellow foxtail-and-volunteer-corn—

² It is recommended that these products are tankmixed at half the use rate with Liberty herbicide to reduce risk of crop response. It is recommended that these products are tank mixed at 1/2 the use rate with Liberty Herbicide to reduce risk of crop response.

CORN INSECTICIDE TANK MIX PARTNERS FOR GLUFOSINATE 280 SL

To provide weed and insect control in corn, GLUFOSINATE 280 SL may be mixed with the following insecticides.

Ambush [®] Insecticide	Tombstone [™] Helios [®]	Pounce [®] 3 2EC Insecticide
Asana [®] XL Insecticide	Lorsban [®] 4E Insecticide	Warrior [™] Insecticide
Baythroid [®] XL Insecticide	Tombstone [™]	

APPLICATION DIRECTIONS FOR USE ON COTTON

Uniform thorough spray coverage is necessary to achieve consistent weed control. GLUFOSINATE 280 SL may be applied as a broadcast over the top post emergence spray or as a directed spray only to LibertyLink cotton. This product may be applied post emergence to non LibertyLink cotton varieties or cultivars by using equipment designed to minimize contact of the spray with the cotton foliage. See the Application Methods on Non LibertyLink Cotton section for selection of shielding equipment. Severe injury or death may result if the GLUFOSINATE 280 SL contacts the foliage or stems of cotton NOT labeled as LibertyLink.

APPLICATION RATE AND TIMING

For best results apply to emerged young actively growing weeds. Warm temperatures, high humidity and bright sunlight improve the performance of GLUFOSINATE 280 SL. Weed control may be reduced when

applications are made to weeds under stress due to drought or cool temperatures. For optimal yield, early season weed removal is important.

Apply GLUFOSINATE 280 SL to cotton from emergence up to the early bloom stage at 22 to 29 fl. oz./A. Should environmental conditions prevent a timely herbicide application a single application of up to 43 fl. oz./A of GLUFOSINATE 280 SL may be made to cotton. If more than 29 fl. oz./A are used in any single application the seasonal total may not exceed 72 fl. oz./A including all application timings. See Restrictions to the Directions for use on Cotton below for additional information.

Refer to the Weed Control Table for Row Crops section of this label for selection of the proper rate dependent upon weed species present and size. In weed populations with mixed species select the highest rate required to control all the species Volunteer LibertyLink crop plants (corn, rice, cotton, soybeans, sugar beets) from the previous season will not be controlled by applications of GLUFOSINATE 280 SL. A repeat application of GLUFOSINATE 280 SL or tank mixes with a residual herbicide will be needed to control weeds that have not emerged at the time of application. See the Tank Mix Instructions for Use on Cotton to select suitable tank mix partners.

Use Pattern	1 st Application	2 nd Application	3 rd Application	Season Maximum
Option 1	22 - 29 fl. oz./A	22 - 29 fl. oz./A	22 - 29 fl. oz./A	87 fl. oz./A
Option 2	30 - 43 fl. oz./A	22 - 29 fl. oz./A	None	72 fl. oz./A

RESTRICTIONS TO THE DIRECTIONS FOR USE ON COTTON

- DO NOT apply GLUFOSINATE 280 SL to cotton in Florida South of Tampa (Florida Route 60) or in Hawaii except for test plots or breeding nurseries.
- DO NOT apply GLUFOSINATE 280 SL within 70 days prior to cotton harvest.
- Up to three applications of GLUFOSINATE 280 SL may be made to cotton per season at a maximum application rate of 29 fl. oz./A.
- DO NOT apply more than 87 fl. oz. (including all application timings) to cotton per season under this application scenario. Sequential applications should be at least 10 days apart.
- If environmental conditions prevent timely applications resulting in large weeds or heavy infestations a single application of GLUFOSINATE 280 SL at up to 43 fl. oz./A may be made to cotton.
- DO NOT apply more than 43 fl. oz. of GLUFOSINATE 280 SL in a single application under this use scenario. If a single application greater than 29 fl. oz. is made a subsequent application not to exceed 29 fl. oz. may be made to cotton. The seasonal total use rate under this scenario may not exceed 72 fl. oz. of GLUFOSINATE 280 SL. Sequential applications should be at least 10 days apart.
- DO NOT apply this product through any type of irrigation system.
- Refer to the Rotational Crop Restrictions section under the Information heading of this label for the appropriate rotational crop plant back intervals.

APPLICATION METHODS TO LIBERTYLINK COTTON

Refer to the Weed Control Table for Row Crops to select the proper application rate based upon the weeds present and their size. Uniform and thorough spray coverage is required to achieve consistent weed control. For ground application apply GLUFOSINATE 280 SL to LibertyLink cotton as an over the top foliar spray or as a spray directed to the lower one third of the cotton stand.

APPLICATION METHODS TO NON LIBERTYLINK COTTON

Application of GLUFOSINATE 280 SL to cotton varieties not labeled as LibertyLink requires the use of hooded spray equipment designed to minimize exposure of the spray to the cotton stand. A hooded sprayer directs the spray onto weeds while shielding the cotton stand from contact. Use nozzles that provide uniform coverage within the treated area. Keep hoods on these sprayers adjusted to protect

desirable vegetation Extreme care must be exercised to avoid exposure of the desirable vegetation to the spray.

With a hooded sprayer the spray pattern is completely enclosed on the top and all 4 sides by a hood thereby shielding the crop from the spray solution. This equipment must be set up and operated in a manner that avoids bouncing or raising the hoods off the ground in any way. The spray hoods must be operated on the ground or skimming across the ground. Tractor speed must be adjusted to avoid bouncing of the spray hoods. Avoid operation on rough or sloping ground where the spray hoods might be raised off the ground. If the hoods are raised spray particles may escape and come into contact with the cotton causing damage or destruction of the crop.

Herbicide rates and spray volume Instructions are presented as broadcast equivalents and must be reduced in proportion to the area actually treated. Use the following formulas to calculate the correct rate and volume per planted (field) acre.

Band width in inches	X	Broadcast RATE per acre	=	Amount of banded product needed per acre
Row width in inches				

Band width in inches	X	Broadcast spray VOLUME per acre	=	Banded spray volume needed per acre
Row width in inches				

POST HARVEST

GLUFOSINATE 280 SL may be applied as a post harvest burndown treatment to fields (after cotton harvest). Up to 43 fl. oz./A of GLUFOSINATE 280 SL may be applied in a single application to control larger weeds growing in the crop at the time of harvest.

If more than 29 fl. oz./A is used in a single application the seasonal total may not exceed 72 fl. oz./A including all application timings. Refer to the *Rotational Crop Restrictions* section of this label for appropriate rotational crop information.

COTTON TANK MIX INSTRUCTIONS

Certain tank mixes may aid in the performance of GLUFOSINATE 280 SL. No additional surfactant is needed with any tank mix partner GLUFOSINATE 280 SL may be applied in tank mix combinations with labeled rates of other products provided these other products are labeled for the timing and method of application for the cotton to be treated. The tank mix partner must be used in accordance with the label limitations and precautions. No label dosage rates may be exceeded GLUFOSINATE 280 SL cannot be mixed with any product containing a label prohibition against such mixing.

LibertyLink Cotton For cotton tolerant to GLUFOSINATE 280 SL Dual Magnum® or Staple® Herbicide may be tank mixed with GLUFOSINATE 280 SL and applied over the top post emergence to enhance weed control and/or provide residual control.

All Cotton Types The following herbicides may be mixed with Liberty 280 SL for hooded spray application to enhance weed control and/or provide residual weed control.

POSTEMERGENCE OVER THE TOP TANK MIX PARTNERS FOR GLUFOSINATE 280 SL ON LIBERTY LINK COTTON

Assure II	metolachlor	clethodim
Poast Plus	Fusilade DX	Select Max
Fusion	Staple	

APPLICATION DIRECTIONS FOR USE ON SOYBEANS,

Apply GLUFOSINATE 280 SL only to soybean designated as LibertyLink. Uniform thorough spray coverage is necessary to achieve consistent weed control.

APPLICATION RATE AND TIMING

For best results apply to emerged young actively growing weeds. Warm temperatures high humidity and bright sunlight improve the performance of GLUFOSINATE 280 SL. Weed control may be reduced when applications are made to weeds under stress due to drought or cool temperatures. Adding ammonium sulfate with GLUFOSINATE 280 SL may improve weed control if weeds are under stress. For optimal yield early season weed removal is important.

Applications of GLUFOSINATE 280 SL on soybeans may be made from emergence up to but not including the bloom growth stage.

Apply GLUFOSINATE 280 SL to LibertyLink soybeans from emergence up to but not including the bloom growth stage at 22 to 29 fl. oz./A. See weed chart to determine rate. Should environmental conditions prevent a timely herbicide application a single application of up to 36 fl. oz./A of GLUFOSINATE 280 SL may be made to soybeans followed by one additional application at a maximum of 29 fl. oz./A with a seasonal maximum of 65 fl. oz./A. GLUFOSINATE 280 SL may be applied alone or in a tank mix application with a residual herbicide to control weeds that have not yet emerged at the time of application.

Although timely post applications of GLUFOSINATE 280 SL can provide complete weed control residual herbicides at burndown planting or tank mixed with GLUFOSINATE 280 SL help ensure optimal weed management particularly if environmental conditions delay timely post applications. Residual herbicides can also reduce early season weed competition and are a key element of good weed resistance management practices.

Use Pattern Rate Ranges		
1 st Application	2 nd Application	Season Maximum
22 - 36 fl. oz./A	22 - 29 fl. oz./A	65 fl. oz./A

RESTRICTIONS TO THE DIRECTIONS FOR USE ON SOYBEANS

- DO NOT apply GLUFOSINATE 280 SL within 70 days of harvesting soybean seed.
- DO NOT apply more than 65 fl oz/A of GLUFOSINATE 280 SL on soybeans per growing season.
- DO NOT apply more than 36 fl oz/A of GLUFOSINATE 280 SL in a single application.
- DO NOT graze the treated crop or cut for hay.
- DO NOT use nitrogen solutions as spray carriers. A silicone based antifoam agent may be added if needed.
- DO NOT apply GLUFOSINATE 280 SL if soybeans show injury from prior herbicide applications or environmental stress (drought excessive rainfall etc).
- DO NOT apply this product through any type of irrigation system.
- Refer to the *Rotational Crop Restrictions* section under the Information heading of this label for the appropriate rotational crop plant back intervals.
- Sequential applications should be at least 5 days apart.

SOYBEAN TANK MIX INSTRUCTIONS

Certain herbicide tank mixes may complement GLUFOSINATE 280 SL. No additional surfactant is needed with any tank mix partner GLUFOSINATE 280 SL may be applied in tank mix combinations with labeled rates of other products provided these other products are labeled for the timing and method of application for the soybean to be treated. The tank mix partner must be used in accordance with the label limitations and precautions. No label dosage rates may be exceeded GLUFOSINATE 280 SL cannot be mixed with any product containing a label prohibition against such mixing.

TANKMIX PARTNERS FOR GLUFOSINATE 280 SL IN LIBERTYLINK SOYBEANS

Assure® II	Fusion®	Raptor™
Classic®	Harmony® GT	Reflex®
Clethodim	Optill	Resource®
Cobra®	metolachlor	Select Max®
Fierce	Phoenix™	Sharpen
FirstRate®	Poast Plus®	Synchrony® XP
Flexstar®	Prefix	Ultra Blazer®
Fusilade® DX	Pursuit®	

APPLICATION DIRECTIONS FOR CANOLA, CORN, COTTON, AND SOYBEAN SEED PROPAGATION

GLUFOSINATE 280 SL may be applied to select out susceptible segregates i. e. canola, corn, cotton and soybean plants that are not tolerant to glufosinate ammonium during seed propagation.

- Canola - GLUFOSINATE 280 SL may also be used in canola seed propagation as a foliar spray to selectively eliminate canola plants that do not carry a gene that imparts tolerance to glufosinate ammonium and as such can be applied to remove susceptible segregates during canola seed propagation. Breeding material not possessing the glufosinate ammonium tolerance gene will be severely injured or killed if treated with this herbicide. See *Application Use Directions for Use on Canola* for use rates and application timing.
- Corn Inbred - lines plants not possessing glufosinate ammonium tolerance will be severely injured or killed if treated with this herbicide. A hooded sprayer may be used to protect plants from coming into contact with the herbicide application. For the selection of tolerant corn segregates GLUFOSINATE 280 SL may be applied at 22 fl. oz./A plus AMS at 3 lb./A (17 lb./100 gallons) when corn is in the V 3 to V-4 stage of growth i. e. 3 to 4 developed collars. A second treatment of 22 fl. oz./A plus AMS at 3 lbs./A may be applied when the corn is in the V 6 to V 7 stage of growth or up to 24" tall. Sequential applications should be at least 10 days apart. When temperatures exceed 85° F the rate of AMS can be reduced to 1.5 lbs./A (8.5 lbs./100 gallons) to reduce potential leaf burn.
- Cotton - GLUFOSINATE 280 SL may also be used in cotton seed propagation as a foliar spray to selectively eliminate cotton plants that do not carry a gene that imparts tolerance to glufosinate ammonium and as such can be applied to remove susceptible segregates during cotton seed propagation. Breeding material not possessing the glufosinate ammonium tolerance gene will be severely injured or killed if treated with this herbicide. See *Application Use Directions for Use on Cotton* for use rates and application timing.
- Soybeans - For the selection of tolerant soybean segregates GLUFOSINATE 280 SL may be applied at up to 22 to 36 fl. oz./A when soybean is in the third trifoliolate stage. A second treatment of 22 to 29 fl. oz./A may be applied up to but not including the bloom growth stage of soybean. Sequential applications should be at least 5 days apart.

APPLICATION DIRECTIONS FOR USE ON LISTED TREE, VINE; AND BERRY CROPS

Apply GLUFOSINATE 280 SL to the tree vine and berry crops listed below. Uniform thorough spray coverage is necessary to achieve consistent weed control.

REGISTERED CROPS

- Bush berries, blueberry, currant, elderberry, gooseberry and huckleberry.
Other Berries: Lingonberry, juneberry and Salal.
- Citrus – lemon, orange, grapefruit, lime, mandarin, tangerine, tangelo, Calamondin, kumquat, pummelo, citron, citrus hybrids, Tangor and cultivars varieties and/or hybrids of these.
- Olives
- Pome Fruit – Apple, pear, crabapple, loquat, Mayhaw, quince, Azarole, Medlar, Tejocote, cultivars varieties and/or hybrids of these.
- Stone Fruit – Apricot, cherry, peach, nectarine, plum, capulin, jujube, Sloe, and cultivars varieties and/or hybrids of these.
- Tree Nuts – almonds, filberts, hickory nuts, macadamia nuts (bush nuts), pecans, pistachios and walnuts
- Vineyards - all grape varieties (table wine and raisins).

APPLICATION RATE AND TIMING

For best results apply to emerged young actively growing weeds. Warm temperatures, high humidity and bright sunlight improve the performance of GLUFOSINATE 280 SL. Weed control may be reduced when applications are made to weeds under stress due to drought or cool temperatures. Weeds under stress or in dense populations will require application at the highest specified label use rate. Stressed conditions also include prior treatments of other contact or systemic herbicides. Do not retreat these weeds with GLUFOSINATE 280 SL until sufficient regrowth has occurred.

Apply GLUFOSINATE 280 SL as a directed spray to control undesirable vegetation in tree vine and berries listed on this label. Apply as a broadcast banded or spot treatment application depending on the situation to control weeds listed under the heading Weeds Controlled in Tree Vine and Berry crops. Avoid direct spray or drift to desirable vegetation. Regrowth may occur due to the weed stage of growth at application low use rate or environmental conditions. Repeat applications of GLUFOSINATE 280 SL may be necessary to control plants generating from underground parts or seed.

Avoid contact of GLUFOSINATE 280 SL solution spray drift or mist with green bark stems or foliage as injury may occur to trees vines and berries Only trunks with callused mature brown bark should be sprayed unless protected from spray contact by nonporous wraps grow tubes or waxed containers Contact of GLUFOSINATE 280 SL with parts of trees vines or berries other than mature brown bark can result in serious damage.

Application Methods for Broadcast Applications

Apply GLUFOSINATE 280 SL at the rates listed below for broadcast applications based on weed size and stage of growth

Weed Size and Stage	GLUFOSINATE 280 SL Rate
Weeds < 3 in height	48 fl. oz./A
Weeds < 6 in height pre tiller grasses	56 fl. oz./A
Weeds > 6 in height and/or grasses that have tillered	56 - 82 fl. oz./A

Application Methods for Banded Spray Applications

Banded applications may be used using the following formula to calculate the amount of herbicide needed for orchard or vineyard strip sprays

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Rate per acre broadcast} = \text{Amount of herbicide needed for treatment}$$

Application Methods for Spot or Directed Spray Applications

For spot or directed spray applications by backpack sprayers only (no mechanically pressured handgun applications allowed) mix GLUFOSINATE 280 SL at 1.7 fl oz of product per gallon of water. Apply to undesirable vegetation foliage until wet but prior to runoff. Ensure uniform and complete coverage. Thoroughly clean the sprayer following use. DO NOT make spot or directed spray applications to tree or vine trunk as injury may occur.

Weeds Controlled in Tree Vine and Berry Crops

Broadleaf Weeds		
Alkali sida	Henbit	Pineapple weed
Ammannia purple	Jimsonweed	Puncturevine
Arrowhead California	Knotweed	Purslane common
Buckwheat wild	Kochia	Radish wild
Buffalobur	Lambsquarters common	Ragweed common
Burclover	Lettuce-miners	Ragweed-giant
California Carpetweed	Lettuce prickly	Redmaids
Chickweed common	London rocket	Shepherd's Purse
Chinese thornapple	Mallow common	Smartweed Pennsylvania
Cocklebur common	Malva (little mallow)	Sowthistle annual
Copperleaf Virginia	Marestail	Spurge prostrate
Cudweed	Mayweed	Starthistle yellow
Cutleaf eveningprimrose	Morningglory entireleaf	Sunflower common
Dodder	Morningglory ivyleaf	Sunflower prairie
Eclipta	Morningglory pitted	Sunflower volunteer
Fiddleneck	Mullein turkey	Swinecress
Filaree	Mustard wild	Thistle Russian
Filaree redstem	Nettle	Turnip wild
Fleabane annual	Nightshade black	Velvetleaf
Goosefoot	Nightshade eastern black	Vervain
Gromwell field	Nightshade hairy	Vetch
Groundcherry cutleaf	Pennycress	Virginia copperleaf
Groundsel common	Pigweed redroot	Willowherb Panicle
Grass Weeds		
Barnyardgrass	Foxtail yellow	Sandbur, field
Bluegrass annual	Goosegrass	Shattercane
Bromegrass, ripgut	Johnsongrass seedling	Sprangletop
Bromegrass downy	Junglerice	Stinkgrass
Canarygrass	Oat wild	Wheat volunteer
Chess soft	Panicum fall	Windgrass
Crabgrass large	Panicum Texas	Witchgrass
Crabgrass smooth	Rush toad **	
Cupgrass woolly	Ryegrass annual*	
Foxtail giant		
Foxtail green		

Biennial and Perennial Weeds		
Aster white heath	Fescue	Poison ivy/oak
Bindweed field	Goldenrod gray	Quackgrass
Bindweed hedge	Guineagrass	Rocket yellow
Bluegrass Kentucky	Horsetail	Rose wild
Bromegrass smooth Bulrush-	Lovegrass	<i>Rubus</i> spp
Burdock	Mugwort	Spurge leafy
Canada thistle	Mullein common	Thistle bull
Clover Alsike	Mustard tansy	Thistle musk
Clover red	Nutsedge purple	Torpedograss
Clover white	Nutsedge yellow	Vaseygrass
Dallisgrass	Onion wild	Woodsorrel
Dandelion	Orchardgrass	Yarrow common
Dock curly	Paragrass	
dogbane (hemp)	Plantain	

(Apply to annual ryegrass prior to 3 inches in height)

* Indicates Suppression

RESTRICTIONS TO THE DIRECTIONS FOR USE ON TREE VINE AND BERRY CROPS

- DO NOT apply more than 164 fl. oz. of GLUFOSINATE 280 SL per acre (3 lbs. ai/A) to berry bushes and stone fruit in a 12 month period.
- DO NOT make more than 2 applications at a maximum rate of 82 fl. oz. per acre (1.5 lbs. ai/A) per application.
- DO NOT apply more than 246 fl. oz. (4.5 lbs. ai/A) of this product per acre to tree nuts, vines, pome fruit, citrus and olives in any calendar year, DO NOT make more than 3 applications at a maximum rate of 82 fl. oz. per acre (1.5 lb ai/A) per application.
- DO NOT graze harvest and/or feed treated orchard cover crops to livestock.
- DO NOT apply this product through any type of irrigation system.
- DO NOT apply this product aerially to tree berry or vine crops.
- DO NOT apply this product within 14 days of nut fruit berry or grape harvest.
- Applications to citrus, fruits, pome fruits and olives must be a minimum of 14 days apart.
- Applications to stone fruit must be a minimum of 28 days apart.
- DO NOT make spot spray applications to suckers as tree injury may occur.

SUCKER CONTROL WITH GLUFOSINATE 280 SL

GLUFOSINATE 280 SL will reduce or eliminate sucker growth when applied to suckers that are young green and uncallused. For sucker control apply a split application approximately 4 weeks apart at 56 fl. oz. of product/A. Coverage of all sucker foliage is necessary for optimum control. Suckers should not exceed 12 inches in length.

TANKMIX PARTNER INSTRUCTIONS

GLUFOSINATE 280 SL does not provide residual weed control or control of unexposed plant parts. Certain herbicide tank mixes may aid in the performance of GLUFOSINATE 280 SL or be added to provide residual herbicide activity. No additional surfactant is needed with any tank mix partner GLUFOSINATE 280 SL may be applied in tank mix combinations with labeled rates of other products provided these other products are labeled for the timing and method of application for the crop to be treated. The tank mix partner must be used in accordance with the label limitations and precautions. No label dosage rates may be exceeded. GLUFOSINATE 280 SL cannot be mixed with any product containing a label prohibition against such mixing.

Chateau	Princep® 4L	Sinbar® 80W
Devrinol® 50WP	Simazine 4L	Solicam® DF
Goal® 1.6E	Simazine 80W	Surflan® A S
Karmex® DF	Simazine 90	

APPLICATION DIRECTIONS FOR POTATO VINE DESICCATION

APPLICATION RATE AND TIMING

Apply GLUFOSINATE 280 SL at the beginning of natural senescence of potato vines Apply 21 fl. oz./A. Do not split this application or apply more than one application per harvest. Potato varieties with heavy or dense vines may require an application of another desiccation product to complete vine desiccation.

Thorough coverage of the potato vines to be desiccated is essential. Use a sufficient volume of water (20 to 100 gpa) to obtain a thorough coverage of the potato vines. Vary the gallons of water per acre and the spray pressure as indicated by the density of the potato vines to assure thorough spray coverage. Increase the spray volume to at least 30 gallons of water per acre when the potato vine canopy is dense or under cool and dry conditions. Apply GLUFOSINATE 280 SL with the spray boom as low as possible to achieve thorough coverage of the potato vines for best control and to minimize drift potential.

RESTRICTIONS TO THE DIRECTIONS FOR USE IN POTATO VINE DESICCATION

- DO NOT apply more than 21 fl. oz./A to potato vines per season.
- DO NOT harvest potatoes until 9 days or more after application of GLUFOSINATE 280 SL.
- DO NOT apply to potatoes grown for seed.
- Canola, corn, cotton, rice, soybean and sugar beets may be planted at any time after the application of GLUFOSINATE 280 SL as a potato vine desiccant.
- DO NOT plant treated areas to wheat, barley, buckwheat, millet, oats, rye, sorghum and triticale until 30 or more days after an application of GLUFOSINATE 280 SL as a potato vine desiccant.
- DO NOT plant treated areas to crops other than those listed in this use precautions section until 120 or more days after an application of GLUFOSINATE 280 SL as a potato vine desiccant.

APPLICATION DIRECTIONS FOR USE ON RICE

THOROUGH SPRAY COVERAGE IS VERY IMPORTANT

For best results apply to emerged young actively growing weeds GLUFOSINATE 280 SL is a foliar active material with little or no soil residual activity. Weeds that emerge after application will not be controlled. Weed control may be reduced if application is made when heavy dew fog and mist/rain are present or when weeds are under stress due to drought cool temperatures or extended periods of cloudiness. GLUFOSINATE 280 SL is rainfast 4 hours after application to most weed species. Rainfall within 4 hours after application may necessitate retreatment or reduced weed control may result.

RESTRICTIONS TO THE DIRECTIONS FOR USE ON RICE

- DO NOT exceed 48 oz. of GLUFOSINATE 280 SL per growing season.
- DO NOT apply GLUFOSINATE 280 SL within 70 days of harvesting rice.
- DO NOT plant rotation crops in a field treated with GLUFOSINATE 280 SL within 120 days after the last application of this product with the exception of wheat, barley, buckwheat, millet, oats, rye, sorghum and triticale which may be planted 70 days after the last application of this product. The

- crops listed on this label may be planted at any time.
- DO NOT apply this product through any type of irrigation system.
- DO NOT use paddy water from a rice field treated with GLUFOSINATE 280 SL for irrigation or as a water source for livestock or for raising crayfish.
- DO NOT add surfactants or crop oils. A silicon based antifoam agent may be added, if needed.

Application Timing for the Southern United States (Arkansas, Louisiana, Mississippi, Missouri, Texas)

Applications of GLUFOSINATE 280 SL on rice may be made from the 1 leaf stage through the mid-tillering stage of development. Refer to the Rate *Tables for Weed Control in Rice* to select the proper rate to use to control the weed species present. GLUFOSINATE 280 SL will have an effect on weeds that are larger than the recommended leaf stage however speed of activity and control may be reduced.

Rice fields should be as level as possible and free of large clods to obtain uniform germination of rice and grassy weeds and to ensure uniform flood levels. If necessary fields may be flushed prior to treatment so that the rice and grass/broadleaf weeds are actively growing at the time of treatment. If the rice field is flushed allow sufficient time for germination of the weed species to occur prior to treatment.

Apply GLUFOSINATE 280 SL prior to the permanent flood when weeds are in the 1-5 leaf stage. A second application is recommended after a new flush of weeds emerge. A second application may be made from 10-14 days after the first application up to the mid tillering growth stage of the rice. For optimum weed control apply GLUFOSINATE 280 SL before canopy closure to ensure thorough spray coverage of the weed species.

When applying GLUFOSINATE 280 SL post flood lower the water level so that 75% of the weed foliage is exposed. The water level may be brought back to normal level 48 hours after the herbicide application.

APPLICATION TIMING FOR CALIFORNIA

1 Water Seeded Rice

GLUFOSINATE 280 SL can be applied when the rice is in the 1 leaf stage to mid tillering stage of development (but prior to panicle initiation). For optimum weed control apply GLUFOSINATE 280 SL when rice is in the 4 to 5 leaf stage. Lower the water in the field in order to expose small broadleaf weeds and sedges. The water level may be brought back to the normal level 24 hours after herbicide application. The water level must be controlled such that the rice is not completely covered. A second application is recommended at the 2 to 3 tiller stage of rice. For optimum weed control apply GLUFOSINATE 280 SL before canopy closure to ensure thorough spray coverage of the weed species.

- Minimum paddy depth of 8 inches.
- Do not exceed 24 fl. oz. (0.44 lbs ai/A) per single application.
- Maximum of two applications at 24 fl. oz. (0.44 lbs. ai/A) with a minimum 10 day retreatment interval
- Do not exceed 48 fl. oz. (0.89 lbs ai/A) per year.
- Minimum 7 day holding period after last application.

2 Drilled or Dry Seeded Rice

Rice fields should be as level as possible and free of large clods to obtain uniform germination of rice and grassy weeds and to ensure uniform flood levels. If necessary fields may be flushed prior to treatment so that the rice and grass/broadleaf weeds are actively growing at the time of treatment. If the rice field is flushed allow sufficient time for germination of the weed species to occur prior to treatment.

Apply GLUFOSINATE 280 SL prior to the permanent flood when weeds are in the 1.5 leaf stage. A second

application is recommended after a new flush of weeds emerge. A second application may be made from 10 to 14 days after the first application up to the mid tillering growth stage of the rice. For optimum weed control apply GLUFOSINATE 280 SL before canopy closure to ensure thorough spray coverage of the weed species.

- Do not exceed 48 fl. oz. (0.89 lbs ai/A) per single application.
- 2 applications can be made at 24 fl. oz. (0.44 lbs. ai/A) with a minimum 10 day retreatment interval
- Do not exceed 48 fl. oz. (0.89 lbs ai/A) per year.
- Minimum paddy depth of 4 inches.
- Minimum 7 day holding period after flooding of the field.

Rate Tables for Weed Control in Rice.

Rates in ounces of formulated product per acre for the control of weeds are shown in the following tables. In weed populations with mixed species apply the rates needed for all species present.

1 Southern United States (Arkansas, Louisiana, Mississippi, Missouri, Texas)

Grass Weeds Controlled with GLUFOSINATE 280 SL in Rice Grown in the Southern United States

Weed Species	Maximum Weed Growth Stage (leaf/tiller)	
	20 fl. oz./A	24 fl. oz./A
Barnyardgrass	4 leaf	2 tiller
Crabgrass large	4 leaf	2 tiller
Fall Panicum	4 leaf	2 tiller
Johnsongrass	4 leaf	2 tiller
Rice red*	2 leaf	2 tiller
Signalgrass broadleaf	4 leaf	2 tiller
Sprangletop	4 leaf	2 tiller
Watergrass	6 leaf	2 tiller

For optimum red rice control make two applications of GLUFOSINATE 280 SL. The first application should be made when the red rice is in the 2-3 leaf stage. The second application should be made after the newly emerged red rice reaches the 2 - 3 leaf stage but before the white rice reaches the mid tillering stage of development

Broadleaf Weeds Suppressed or Controlled with GLUFOSINATE 280 SL in Rice Grown in the Southern United States

Weed Species	Maximum Weed Height or Diameter (Inches)	
	20 fl. oz./A	24 fl. oz./A
Ammania	2	4
California Arrowhead	**	4
Cocklebur common	6	10
Curly Indigo	2	8
Dayflower	2	4
Eclipta	4	6
Morningglory ivyleaf	4	8
Morningglory pitted	4	8
Northern Ointvetch	4	8
Pennsylvania smartweed	4	8
Sesbania hemp	4	10

** indicates suppression

GLUFOSINATE 280 SL applied at 24 fl. oz./A may control or suppress the sedges shown in the following table. Control of sedges may be enhanced by using a second application or by a tank mix with other herbicides recommended on this label.

Sedges Suppressed with GLUFOSINATE 280 SL in Rice Grown in the Southern United States

Sedges	24 fl. oz. A
Bulrushes	**
Flatsedge	**
Nutsedge	**
Smallflower Umbrella plant	**

** indicates suppression

2. California

Grass Weeds Controlled with GLUFOSINATE 280 SL at 20 fl oz/A in Rice Grown in California

Weed Species	Maximum Weed Growth Stage
Barnyardgrass	4 leaf
Sprangletop	4 leaf
Watergrass	4 leaf

Broadleaf Weeds Suppressed or Controlled with GLUFOSINATE 280 SL in Rice Grown in California

Weed Species	Maximum Weed Height (Inches)	
	20 fl. oz./A	24 fl. oz./A
Ammania	2	4
California Arrowhead	2	4
Ducksalad	2	4

GLUFOSINATE 280 SL applied at 20 to 24 fl. oz./A may control or suppress the sedges shown in the following table. Control of sedges may be enhanced by using a second application or tank mixes with other herbicides.

Sedges Suppressed or Controlled With GLUFOSINATE 280 SL in Rice Grown in California

TANK MIX INSTRUCTIONS FOR USE IN RICE

Weed Species	Maximum Weed Height (Inches)	
	20 fl. oz./A	24 fl. oz./A
Ricefield bulrush	**	4
Smallflower Umbrellaplant	**	4

** Indicates suppression

When using GLUFOSINATE 280 SL in tank mix combinations follow the precautions and directions of the most restrictive label for the appropriate timing rate and crop response information

1 Southern United States (Arkansas, Louisiana, Mississippi, Missouri, Texas)

To enhance weed control and/or provide residual control in rice herbicides.

- Arroso® 3.3E Herbicide
- Basagran® Herbicide
- Bolero EC® Herbicide
- Londax® Herbicide
- Prowl® 3 3EC Herbicide
- Propanil
- Stam® Herbicide
- Permit® Herbicide

2 California

To enhance weed control and/or provide residual control in rice GLUFOSINATE 280 SL may be mixed with the following herbicides

- Londax® Herbicide
- Stam® Herbicide
- Super Wham® Herbicide

APPLICATION DIRECTIONS FOR USE IN RICE SEED PROPAGATION

GLUFOSINATE 280 SL is to be applied as a foliar spray to selectively remove susceptible segregates i. e. undesirable rice plants which are not tolerant to glufosinate ammonium and to control of a broad spectrum of emerged grass and broadleaf weeds in rice seed production fields. Inbred lines or breeding material not possessing the glufosinate ammonium tolerance gene will be severely injured or killed if treated with this herbicide. Apply GLUFOSINATE 280 SL exclusively to rice seed propagation fields in which the desired plants are glufosinate ammonium tolerant.

THOROUGH SPRAY COVERAGE IS VERY IMPORTANT

GLUFOSINATE 280 SL works best when weeds are small and the crops and weeds are actively growing. Visual effects and control of rice susceptible segregates from GLUFOSINATE 280 SL applications occur within 2 to 4 days after application under good growing conditions. The ability of GLUFOSINATE 280 SL to eliminate rice plants not tolerant to GLUFOSINATE 280 SL may be reduced when heavy dew fog or mist/rain is present on the crop or when the crop is under stress due to drought cool temperatures or extended periods of cloudiness.

Rice fields should be as level as possible and free of large clods to obtain uniform germination of rice and grassy weeds and to ensure uniform flood levels. If necessary, fields may be flushed prior to treatment. If fields are flushed prior to treatment flush in sufficient time so that the rice and grass/broadleaf weeds are actively growing at time of treatment.

Do not allow spray to contact foliage or green tissue of desirable vegetation other than rice lines in which the desired plants are glufosinate ammonium tolerant. This product will injure any other green vegetation contacted by the spray.

INSTRUCTIONS FOR SEED HANDLING STORAGE AND USE

Seed from treated plants must be held in secured storage until used for breeding of glufosinate ammonium tolerant rice seed or destroyed. Seed from treated plants must be labeled as follows. Do Not Use for Feed or Food Purposes. Store Away from Feed and Foodstuffs. In addition label the seed with the Seed Disposal statements found in the Storage and Disposal section of this label.

RESTRICTIONS TO THE DIRECTIONS FOR USE

1. DO NOT use nee any rice processed commodities or rice straw treated with GLUFOSINATE 280 SL for food or feed consumption.
2. DO NOT exceed 80 fl. oz./A of GLUFOSINATE 280 SL per growing season on rice being treated for segregate control in transgenic seed production fields.
3. DO NOT plant rotation crops in a field treated with GLUFOSINATE 280 SL for 120 days after the last application of this product with the exception of wheat, barley, buckwheat, millet, oats, rye, sorghum and triticale which may be planted 70 days after the last application of this product.
4. DO NOT apply this product through any type of irrigation system

Rate Instructions and Timing for Seed Production

For the selection of susceptible rice segregates GLUFOSINATE 280 SL must be applied at 40 fl. oz./A when rice is in the 1 to 3 leaf stage of growth. A second treatment of 40 fl. oz./A must be applied 10 days later or up until the rice is in the mid tillering state of growth.

- Do not exceed 80 fl. oz. (1.46 lbs. ai/A) per single application.
- Two applications can be made at 40 fl oz (0 73 lbs ai/A) with a minimum 10 day re-treatment interval.
- Do not exceed 80 fl. oz. (1.46 lbs ai/A) per year.
- Minimum paddy depth of 4 inches.
- If one application of 80 fl. oz. is made the application must be made to a dry field. A minimum 7 day holding period after flooding of the field is required.
- If two applications are made, the first application must be made to a dry field.
- The second application may be made to a flooded field with a required 55 day holding period for a 4 inch paddy depth or a 30 day holding period for an 8 inch paddy depth.

WATER MANAGEMENT

A sufficient portion of the target grassy weed plant must be exposed to GLUFOSINATE 280 SL for satisfactory control to be achieved. Therefore if necessary lower or allow water to recede so that at least 75% of the weed foliage is exposed above the water level. Do not increase the water level for at least 48 hours following the application of GLUFOSINATE 280 SL. The water level may be brought back to normal level following this period.

TANK MIX INSTRUCTIONS FOR GLUFOSINATE 280 SL USE IN RICE SEED PROPAGATION

When using GLUFOSINATE 280 SL in tank mix combinations follow the precautions and directions of the most restrictive label for the appropriate timing rate and crop response information.

- 1 Southern United States (Arkansas, Louisiana, Mississippi, Missouri, Texas)

To enhance weed control and/or provide residual control in rice GLUFOSINATE 280 SL may be mixed with the following herbicides:

- Arroso® 3 3E Herbicide
- Basagran® Herbicide
- Bolero® 8EC Herbicide
- Londax® Herbicide
- Prowl® 3.3 EC Herbicide
- Stam® Herbicide
- Permit® Herbicide

2 California

To enhance weed control and/or provide residual control in rice GLUFOSINATE 280 SL may be mixed with the following herbicides.

- Bolero® 8EC Herbicide
- Londax® Herbicide
- Stam® Herbicide
- Super Wham® Herbicide

FALLOW FIELDS OR POST HARVEST

GLUFOSINATE 280 SL may be used as a substitute for tillage in fallow fields to control or suppress weeds listed in the Weed Control for Row Crops section of this label. Applications may be made in fallow fields post harvest prior to planting or emergence of any crop listed on this label.

Apply GLUFOSINATE 280 SL at 22 or 29 fl. oz./A to fallow fields to control specific weeds. GLUFOSINATE 280 SL must be applied with ammonium sulfate. Tank mixes with 2-4, D glyphosate or atrazine are recommended with GLUFOSINATE 280 SL to enhance total weed control. When using GLUFOSINATE 280 SL in tank mix combinations follow the precautions and directions of use of the most restrictive label. See the Application and Mixing Procedures section of this label for additional information on how to apply this product. See the Information section of this label for rotational crop restrictions.

FARMSTEADS, RECREATIONAL, AND PUBLIC AREAS

When applied as listed GLUFOSINATE 280 SL controls undesirable plant vegetation in non crop areas around farmstead, building foundations, shelter belts along fences, airports, commercial plants storage and lumber yards, educational facilities, fence lines, ditch banks, dry ditches, schools parking lots, tank farms, pumping stations, parks other public areas and general nonselective farmstead weed control. Refer to the Application Directions for use on listed Tree Vine and Berry Crops section of this label for appropriate application broadcast and spot spray application rates and lists of weeds controlled.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Do not use or store near heat or open flame. Keep the container tightly closed and dry in a cool well ventilated place. Storage temperature should not exceed 125° F. If storage temperature for bulk GLUFOSINATE 280 SL is below 32° F, the material should not be pumped until its temperature exceeds 32° F. Protect against direct sunlight.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:

[Rigid, Non-refillable containers small enough to shake (i e with capacities equal to or less than 5 gallons)]

Non refillable container. Do not reuse or refill this container. Triple rinse container promptly after

emptying. Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Once container is rinsed then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incineration or if allowed by State and local authorities by burning. If burned stay out of smoke.

[All refillable container types (containers with capacities greater than 50 lbs)]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. This is a sealed returnable container to be used only for GLUFOSINATE 280 SL. When this container is empty it must not be opened cleaned or discarded. Empty containers must be returned to the original purchase location.

[Bottom discharge Intermediate Bulk Container (IBC) (containers with capacities greater than 50 lbs)]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Empty the remaining contents from the Intermediate Bulk container (IBC) into application equipment or mix tank. Raise the bottom of the IBC by 1.5 inch on the side which is opposite of the bottom discharge valve to promote more complete product removal. Completely remove the top lid of the IBC. Use water pressurized to at least 40 PSI to rinse all interior portions. Continuously pump or drain rinsate into application equipment or rinsate collection system while pressure rinsing. Continue pressure rinsing for 2 minutes or until rinsate becomes clear. Replace the lid and close bottom valve. Contact your Ag retailer or Bayer CropScience for container return disposal and recycling recommendations.

SEED DISPOSAL: To dispose of out of date or otherwise unmarketable seed from plants which have been treated with GLUFOSINATE 280 SL broadcast and lightly incorporate seed into field soils using disc or other suitable implement. Any resulting crop may be destroyed by chemical or mechanical means. Alternatively seed may be destroyed by deep burial incineration or landfill disposal.

IMPORTANT READ BEFORE USE

Read the entire Directions for Use Conditions Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable return the unopened product container at once.

By using this product user or buyer accepts the following Conditions Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions presence of other materials or the manner of use or application all of which are beyond the control of Albaugh, Inc. All such risks shall be assumed by the user or buyer.

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