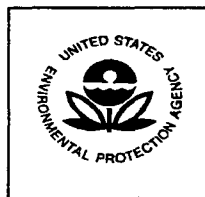


82534-4

12/5/2012

1/23

**U S ENVIRONMENTAL PROTECTION
AGENCY**

**Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave , NW
Washington, D C 20460**

**EPA Registration
Number**

82534-4

Date of Issuance

DEC - 5 2012

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)**

Summit Agro North Americana Holding Corporation
c/o Pyxis Regulatory Consulting Inc
4110 136th St NW
Gig Harbor WA 98332

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 the registration/ reregistration review of your product when the Agency requires all registrants of similar products to submit data, and submit acceptable responses required for reregistration of your product under FIFRA section 4

2 Make the following label change Change the EPA Registration Number to 82534-4

3 Submit one (1) copy of the revised final printed label before the product is released 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

Enclosure

Signature of Approving Official

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

Date

DEC - 5 2012

Glufosinate 280 SL

Herbicide

Glufosinate 280 SL is a non-selective herbicide. Apply Glufosinate 280 SL for post emergence control of listed weed species in apples, berries, grapes and tree nuts. Glufosinate 280 SL Herbicide may also be applied for potato vine desiccation. Glufosinate 280 SL Herbicide is also a non-selective herbicide for post emergence broadcast use on canola, field corn, cotton and soybean designated as LibertyLink. Glufosinate 280 SL Herbicide may also be applied as a broadcast burndown application before planting or prior to emergence of any conventional or transgenic variety of canola, field corn, cotton, soybean or sugar beet.

ACTIVE INGREDIENT

Glufosinate-ammonium

24.5%**

OTHER INGREDIENTS

75.5%

TOTAL

100.0%

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.)

FOR ADDITIONAL PRECAUTIONARY STATEMENTS See Inside Booklet

For MEDICAL and TRANSPORTATION emergencies call 1-800-334-7577

FIRST AID	
If on skin or clothing	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If in eyes	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If swallowed	Rinse mouth thoroughly with plenty of water. Do not induce vomiting. Get medical attention immediately.
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.	
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact Chemtrec at 1-800-424-9300 for emergency medical treatment information 24 hrs. per day.	

Manufactured For

Summit Agro North America Holding Corporation
600 Third Avenue
New York, NY 10016-2001

EPA Reg. No. 82534-xx

EPA Est. No.

NET CONTENTS

DEC - 5 2012

82534-4

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

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 product's 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

When mixing and loading wear a chemical-resistant apron For overhead exposure wear chemical-resistant headgear When cleaning equipment wear a chemical-resistant apron

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

USER SAFETY RECOMMENDATIONS

Users should

Wash thoroughly with soap and water after handling and before eating drinking chewing gum using tobacco or using the toilet Remove and wash contaminated clothing before reuse

Remove clothing immediately if pesticide gets inside Then wash thoroughly and put on clean clothing

Remove PPE immediately after handling this product Wash the outside of gloves before removal As soon as possible wash thoroughly and change into clean clothing

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.

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

PRODUCT INFORMATION

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 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 Summit Agro North America Holding Corporation 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

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 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 a water-soluble herbicide for application as a foliar spray for the control of a broad spectrum of emerged annual and perennial grass and broad leaf weeds in LibertyLink® canola LibertyLink® corn LibertyLink® cotton and LibertyLink® soybean and in apples berries grapes and tree nuts Glufosinate 280 SL may also 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 corn cotton soybean or sugar beet

Make applications between dawn and 2 hours before sunset to avoid the possibility of reduced lambsquarters and velvetleaf control

Do not cultivate from 5 days before an application to 7 days after an application in order to maximize weed control

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 weed control may be reduced

Glufosinate 280 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 to apples berries tree nuts and vines 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

CLEANING DIRECTIONS

Prior to using Glufosinate 280 SL thoroughly clean bulk storage tank refillable tank nurse tanks spray tank lines and filter particularly if a 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.

APPLICATION DIRECTIONS

Aerial Application

Reduced weed control will result if coverage is poor. For optimal weed control, apply Glufosinate 280 SL in a minimum of 10 gallons of water 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.

Ground Application

Apply Glufosinate 280 SL as a broadcast treatment in a minimum of 15 gallons of water per acre. Under dense weed/crop canopies, 20 to 40 gallons of water per acre should be used so that thorough spray coverage will be obtained. Apply Glufosinate 280 SL using nozzles and pressures that generate MEDIUM (about 250 to 350 microns) spray droplets category as reported by the nozzle manufacturer and in accordance to ASABE S 572. Do not use nozzles and pressures that result in COARSE sprays. FINE sprays should also be avoided to minimize spray drift risk. 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.

CROP ROTATION RESTRICTIONS

Refer to the application directions for Potato Vine Desiccation for Rotational Crop Restrictions specifically after Glufosinate 280 SL applications to potatoes.

Rotational crop planting intervals following application of Glufosinate 280 SL are listed below.

Rotational Crop	Minimum Rotational Crop Planting Interval from Last Application of Glufosinate 280 SL
All crops other than those listed in this table	180 Days
Root and Tuber Vegetables, Leafy Vegetables, Brassica, Leafy Vegetables and Small Grains (barley, buckwheat, oats, rye, teosinte, triticale and wheat)	70 Days
Canola, Field Corn, Cotton, Rice, Soybeans and Sugar beets	May be planted at any time

Failure to comply with these restrictions may result in illegal residues in rotated crops.

MIXING DIRECTIONS

Tank Mixtures with Glufosinate 280 SL

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 a 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 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 resuspend 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

Compatibility Testing

Test the compatibility of the intended tank mixture if Glufosinate 280 SL is to be mixed with pesticide products not listed on this label 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 Put 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

After compatibility testing is complete dispose of any pesticide wastes in accordance with the Storage and Disposal section of 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

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers

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:

1. The distance of the outer most nozzles on the boom must not exceed $\frac{3}{4}$ the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they must 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 on next page). 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 $\frac{3}{4}$ 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 -10 mph. 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.

LISTED TREE, VINE, AND BERRY CROPS USE DIRECTIONS

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

- Tree Nuts: almonds, filberts, hickory nuts, macadamia nuts (bush nuts), pecans, pistachios, and walnuts
- Tree Fruits: apples
- Vineyards: all grape varieties (table wine and raisins)
- Bushberries: blueberry, currant, elderberry, gooseberry, and huckleberry
- Other Berries: lingonberry, junberry, and salal

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.

Use Rate And Timing

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.

In order to achieve optimal results, apply to emerged, young, actively growing weeds. Warm temperatures, high humidity, and bright sunlight improve the performance of Glufosinate 280 SL. Refer to the Weed Control for Row Crops section of this label for selection of the proper rate dependent upon weed species present and size. 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.

Avoid contact of Glufosinate 280 SL solution spray drift or mist with green bark stems or foliage as injury may occur to trees 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 or vines other than mature brown bark can result in serious damage.

Broadcast Application Use Rates

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

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

Banded Spray Application Use Rates

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

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

Spot or Directed-Spray Applications Use Rates

For spot or directed spray application, 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.

Applications in Tree, Vine and Berry Crops Weeds Controlled

Broadleaf Weeds

Alkali sida	Fleabane annual	Morningglory	Redmaids
Ammannia purple	Goosefoot	entireleaf	Shepherd s-Purse
Arrowhead	Gromwell field	Morningglory ivyleaf	Smartweed
California	Groundcherry	Morningglory pitted	Pennsylvania
Buckwheat wild	cutleaf	Mullein turkey	Sowthistle annual
Buffalobur	Groundsel common	Mustard wild	Spurge prostrate
Burclover California	Henbit	Nettle	Starthistle yellow
Carpetweed	Jimsonweed	Nightshade black	Sunflower common
Chickweed common	Knotweed	Nightshade eastern	Sunflower prairie
Chinese thornapple	Kochia	black	Sunflower volunteer
Cocklebur common	Lambsquarters	Nightshade hairy	Swinecress
Cudweed	common	Pennycress	Thistle Russian
Cutleaf	Lettuce miner s	Pigweed red root	Turnip wild
eveningprimrose	Lettuce prickly	Pineapple-weed	Velvetleaf
Dodder	London rocket	Puncturevine	Vervain
Eclipta	Mallow common	Purslane common	Vetch
Fiddleneck	Malva (little mallow)	Radish wild	Virginia copperleaf
Filaree	Marestail	Ragweed common	Willowherb panicle
Filaree redstem	Mayweed	Ragweed giant	

Biennial and Perennial Weeds

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

*suppression only

Grass Weeds

Barnyardgrass	Crabgrass smooth	Junglerice	Shattercane
Bluegrass annual	Cupgrass woolly	Oat wild	Sprangletop
Brome ripgut	Foxtail giant	Panicum fall	Stinkgrass
Bromegrass downy	Foxtail green	Panicum Texas	Wheat volunteer
Canarygrass	Foxtail yellow	Rush toad*	Windgrass
Chess soft	Goosegrass	Ryegrass annual	Witchgrass
Crabgrass large	Johnsongrass seedling	Sandbur field	

*suppression only

Tank Mixtures

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
Devrinol[®] 50WP
Goal[®] 1.6E

Karmex[®] DF
Princep[®] 4L
Simazine 4L

Simazine 80W
Simazine 90
Sinbar[®] 80W

Solicam[®] DF
Surflan[®] A S

Restrictions

- Do not apply more than 164 fl oz of Glufosinate 280 SL per acre (3 lbs ai/A) to berry bushes in a 12-month period
- Do not apply more than 246 fl oz of this product per acre to tree nuts, vines, and tree fruits in any calendar year
- 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, apple, berry, or grape harvest
- Do not make spot spray applications to apple suckers, as tree injury may occur

POTATO VINE DESICCATION USE DIRECTIONS

Use Rate And Timing

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.

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.

Restrictions

- 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.

ROW CROPS USE DIRECTIONS

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

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

Devil s claw	2	4	Ragweed giant	6	12
Fleabane annual	6	8	Senna coffee	4	6
Galinsoga hairy	6	8	Sesbania hemp	6	8
Galinsoga smallflower	6	7	Shepherd s-purse	6	8
Groundcherry cutleaf	4	5	Sicklepod (java bean)	4	6
Geranium cutleaf	4	6	Sida prickly	4	5
Hempnettle	4	6	Smartweed Pennsylvania	6	14
Horsenettle Carolina ³	2	4	Smellmelon	4	6
Jimsonweed	6	10	Sowthistle annual	6	8
Knotweed	3	5	Soybeans volunteer ¹	6	8
Kochia ²	4	6	Spurge prostrate	2	4
Ladysthumb	6	14	Spurge spotted	2	4
Lambsquarters common ²	4	6	Starbur bristly	4	6
Mallow common	4	6	Sunflower common	6	14
Mallow Venice	6	8	Sunflower prairie	3	5
Marestail ³	**	6-12	Sunflower volunteer	6	10
Marshelder annual	4	6	Thistle Russian ³	S	6-12
Morningglory entireleaf ²	6	8	Velvetleaf ²	3	4
Morningglory ivyleaf ²	6	8	Waterhemp common ²	4	5
Morningglory pitted ²	6	8	Waterhemp tall ²	4	5

*Do not apply more than 22 fl oz/A of Glufosinate 280 SL post emergence in a single application to canola and corn. In cotton, Glufosinate 280 SL may be applied at 29 fl oz/A three times per season.

** Suppression ONLY

¹Volunteer LibertyLink crops from the previous season will not be controlled.

²For applications to corn, tank mixing with atrazine may enhance weed control of this species.

³May require sequential applications for control.

Biennial and Perennial Weeds			
For control of the biennial and perennial weeds listed below, apply tank mix partners or sequential applications of Glufosinate 280 SL (22 fl oz/A followed by 22 fl oz/A).			
Alfalfa	Burdock	Goldenrod gray*	Orchardgrass
Artichoke Jerusalem	Bursage woolyleaf	Johnsongrass rhizome	Poinsettia wild
Bermudagrass	Chickweed mouseear	Milkweed common*	Pokeweed
Bindweed field	Clover Alsike	Milkweed honeyvine*	Quackgrass*
Bindweed hedge	Clover red	Muhly wirestem*	Sowthistle perennial
Bluegrass Kentucky	Dandelion	Nightshade silverleaf	Thistle bull
Blueweed Texas	Dock smooth	Nutsedge purple*	Thistle Canada
Bromegrass smooth	Dogbane hemp*	Nutsedge yellow*	Timothy*
			Wormwood biennial

*Suppression Only

Grass Weed Control					
Weed Species	Maximum Weed Height or Diameter (Inches)		Weed Species	Maximum Weed Height or Diameter (Inches)	
	22 fl oz/A	29 fl oz/A*		22 fl oz/A	29 fl oz/A*
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	**	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

*Do not apply more than 22 fl oz/A of Glufosinate 280 SL post emergence to canola and corn. In cotton - Glufosinate 280 SL may be applied at 29 fl oz/A three times per season

**Suppression only

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

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

³A sequential application may be necessary for control.

CANOLA USE DIRECTIONS

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

Use Rate And Timing

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.

For best results, apply to emerged, young, actively growing weeds. Warm temperatures, high humidity, and bright sunlight improve the performance of Glufosinate 280 SL. Refer to the Weed Control for Row Crops section of this label for selection of the proper rate dependent upon weed species present and size. For optimal yield, early season weed removal is important.

Restrictions

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 must be at least 10-14 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.

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Tank Mixtures

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.

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

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.

BURNDOWN USE DIRECTIONS

Refer to the Weed Control for Row Crops section of this label for selection of the proper rate dependent upon weed species present and size.

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, 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, 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.

In canola, corn, soybean, 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 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.

	Burndown Use Rate	Use Rate for In-Season Applications	Season Max (cumulative total)
Canola, Corn, Soybean, Sugar beets	29-36 fl oz/A	None	36 fl oz/A
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 22-20 fl oz/A	72 fl oz/A

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COTTON USE DIRECTIONS

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.

Uniform thorough spray coverage is necessary to achieve consistent weed control.

Use Rate And Timing

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.

For best results, apply to emerged young actively growing weeds. Warm temperatures, high humidity, and bright sunlight improve the performance of Glufosinate 280 SL. Refer to the Weed Control for Row Crops section of this label for selection of the proper rate dependent upon weed species present and size. For optimal yield, early season weed removal is important.

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 section for Use on Cotton of this label to select suitable tank mix partners. Refer to the Weed Control for Row Crops section of this label for selection of the proper rate dependent upon weed species present and size.

Use Pattern	1 st Application	2 nd Application	3 rd Application	Season Maximum (Cumulative Total)
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

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 must be at least 10-14 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 10-14 days apart.

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

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

LibertyLink Cotton

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

Refer to the Weed Control 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

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 volumes 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

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast RATE per acre} = \text{Amount of banded product needed per acre}$$

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast VOLUME per acre} = \text{Amount of banded product needed per acre}$$

Post-Harvest Application

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

Tank Mixtures

Certain tank mixes may aid in the performance of Glufosinate 280 SL 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

No additional surfactant is needed with any tank mix partner

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 Glufosinate 280 SL for hooded-spray application to enhance weed control and/or provide residual weed control

Aim™	Cotoran® DF	Dual Magnum®	Pendimax™ 3 3	Staple®
Caparol® 4L	Direx® 4L	Glyphosate	Prowl® 3 3EC	
Cotoran® 4L	Direx® 80DF	Karmex® DF	Select Max™	

FIELD CORN AND SILAGE CORN USE DIRECTIONS

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

Use Rates And Timing

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

For best results apply to emerged young actively growing weeds Warm temperatures high humidity and bright sunlight improve the performance of Glufosinate 280 SL Refer to the Weed Control for Row Crops section of this label for selection of the proper rate dependent upon weed species present and size For optimal yield early season weed removal is important

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

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 must be at least 10-14 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 A silicone-based antifoam agent may be added if needed

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

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

Tank Mixtures

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

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Corn Herbicide Tank Mix Partners

2 4-D	Camix ^{®1}	Laudis [®]	NorthStar [™]	Spirit [®]
acetochlor	Distinct [™]	Lexar ^{®1}	Pendimethalin ²	Status [®]
Aim ^{™1}	Guardsman Max [®]	Lumax ^{®1}	Permit [®]	Yukon [®]
atrazine	Hornet [®] WDG	metolachlor ¹	Python [®] WDG	
Callisto [™]	Impact [®]	nicosulfuron	s-metolachlor ¹	

¹To reduce risk of crop response these products are tank mixed at 1/2 the use rate with Glufosinate 280 SL

²Tank mixing with pendimethalin may result in reduced control of barnyardgrass fall panicum field sandbur yellow foxtail and volunteer corn

Spray Additives

Glufosinate 280 SL must be applied with ammonium sulfate (AMS) when treating corn 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

SOYBEANS USE DIRECTIONS

Uniform thorough spray coverage is necessary to achieve consistent weed control Apply Glufosinate 280 SL only to soybeans designated as LibertyLink

Use Rates And Timing

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

For best results apply to emerged young actively growing weeds Warm temperatures high humidity and bright sunlight improve the performance of Glufosinate 280 SL Refer to the Weed Control for Row Crops section of this label for selection of the proper rate dependent upon weed species present and size 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

Apply Glufosinate 280 SL at 22 - 29 fl oz/A per application See weed chart to determine rate Should environmental conditions prevent a timely herbicide application a single application of up to 36 fl oz/A 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

BURNDOWN ON SOYBEANS USE DIRECTIONS

Glufosinate 280 SL may be applied as a burndown treatment prior to planting or prior to emergence of any conventional or transgenic variety of soybean Apply a minimum of 29 fl oz/A for burndown of existing weeds just prior to planting or prior to emergence of soybean

For best results apply to emerged young actively growing weeds. Warm temperatures, high humidity and bright sunshine improve the performance of Glufosinate 280 SL. Refer to the Weed Control for Row Crops section of this label for selection of the proper rate dependent upon weed species present and size.

In soybeans, if environmental conditions prevent timely applications, a single application may be made 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.

Soybean Use Patterns	Burndown	In-Season Applications	Season Maximum
	29-36 fl oz/A	1 application at 22-29 fl oz/A	65 fl oz/A

Restrictions

- Do not apply more than two applications of Glufosinate 280 SL to the soybean crop. Sequential applications must be at least 10-14 days apart.
- 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 per growing season to soybeans beyond the V3-V4 vegetative growth stage.
- 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.

Tank Mixtures

Certain herbicide tank mixes may aid in the performance of Glufosinate 280 SL. 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.

No additional surfactant is needed with any tank mix partner.

Soybean Herbicide Tank Mix Partners

Assure [®] II	Fomesafen 1.88	Pursuit [®]	Synchrony [®] XP
Classic [®]	Fusilade [®] DX	Raptor [™]	Ultra Blazer [®]
clethodim	Fusion [®]	Fomesafen 2SL	
Cobra [®]	Harmony [®]	Prefix	
Dual Magnum	Phoenix [™]	Resource [®]	
Firstate [®]	Poast [®] Plus	Select Max [®]	

CORN, COTTON, AND SOYBEAN SEED PROPAGATION USE DIRECTIONS

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

Soybeans For the selection of tolerant soybean segregates Glufosinate 280 SL may be applied at up to 22 fl oz/A when soybean is in the third trifoliate stage. A second treatment of 22 fl oz/A may be applied up to but not including the bloom growth stage of soybean. Sequential applications should be at least 10-14 days apart

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 10-14 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.

FARMSTEADS USE DIRECTIONS

When applied as recommended Glufosinate 280 SL controls undesirable plant vegetation in non-crop areas around farmstead building foundations, shelter belts along fences 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.

FALLOW FIELDS USE DIRECTIONS

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.

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.

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

[Nonrefillable plastic containers less than or equal to 5 gallons]

Nonrefillable container Do not reuse or refill this container. Triple rinse container (or equivalent) 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 ¼ 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. Then offer for recycling if available 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.

[Nonrefillable plastic containers greater than 5 gallons]

Nonrefillable container Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Recap and tighten closures. Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available 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.

[Refillable containers]

Refillable container Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Return to the point of sale or offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

CONDITIONS OF SALE AND LIMITED WARRANTY

The Directions for Use are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently 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 use of the product in a manner inconsistent with its labeling, all of which are beyond the control of

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