



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

December 19, 2018

Keeva Shultz
Agent for Sharda USA LLC
Wagner Regulatory Associates, Inc.
P.O. Box 640
7217 Lancaster Pike, Suite A
Hockessin, Delaware 19707

Subject: Registration Review Label Mitigation for Glufosinate
Product Name: Sharda Glufosinate 24.5% SL
Application Date: 4/23/2018
EPA Registration Number: 83529-82
Decision Number: 540692

Dear Ms. Shultz:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the Registration Review of the above referenced product in connection with the Glufosinate Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

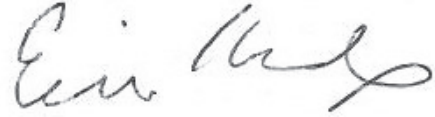
Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded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

A copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions about this letter, please contact Erik Kraft by phone at 703-308-9358, or via email at kraft.erik@epa.gov.

Page 2 of 2
EPA Reg. No. 83529-82
Decision No. 540692

Sincerely,

A handwritten signature in black ink, appearing to read "Erik Kraft". The signature is written in a cursive style with a large, looping "E" and "K".

Erik Kraft, Product Manager 24
Fungicide and Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

GLUFOSINATE | GROUP 10 | HERBICIDE

Sharda Glufosinate 24.5% SL

ABN: Opportunity

A non-selective herbicide for post-emergence broadcast use on canola, sweet corn^[*], field corn, cotton, soybean, and sugar beet^[*] designated as LibertyLink[®]. Sharda Glufosinate 24.5% SL may be used for weed control in non-LibertyLink[®] cotton when applied with a hooded sprayer in-crop. Sharda Glufosinate 24.5% SL may also be applied as a broadcast burndown application before planting or before emergence of canola, sweet corn^[*], field corn, soybean, and sugar beet^[*] designated as LibertyLink[®] and any conventional canola, sweet corn^[*], field corn, cotton, soybean, and sugar beet. Sharda Glufosinate 24.5% SL may be used for post-emergence weed control on olives, listed tree, vine, and berry crops. Sharda Glufosinate 24.5% SL may also be applied for potato vine desiccation.

[*Not for use in California.]

ACTIVE INGREDIENT:	WT. BY %
Glufosinate ammonium*	24.5%**
OTHER INGREDIENTS:	75.5%
TOTAL:	100.0%

*CAS Number 77182-82-2.

**Equivalent to 2.37 lbs. of active ingredient per U.S. gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

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

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 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. 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. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product, call your poison control center at 1-800-222-1222 .	
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.	

[Optional referral statements when booklets and container labels are used:

See Panel for First Aid Instructions and booklet for complete Precautionary Statements and Directions For Use.

See label booklet for complete Precautionary Statements, Directions For Use, and Storage and Disposal.

See label booklet for additional Precautionary Statements, Directions For Use, and Storage and Disposal.

See label booklet for complete Directions For Use.]

EPA Reg. No.: 83529-82

Manufactured for:
Sharda USA LLC 

7217 Lancaster Pike, Suite A
Hockessin, Delaware 19707

ACCEPTED

12/19/2018

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 83529-82

EPA Est. No.: XXXXX-XX-XXX

Net Contents: _____

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. 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.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt, long pants, shoes, and socks.
- Chemical-resistant gloves including barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, or Viton® ≥14 mils
- Protective eyewear (goggles, face shield, or safety glasses)

All handlers must wear:

- Long-sleeved shirt and long pants
- Shoes and socks

Applicators using ground boom equipment with open cabs to treat cotton must wear:

- Long-sleeved shirt and long pants
- Shoes and socks
- Chemical-resistant gloves including barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, or Viton® ≥14 mils

Mixer/loaders supporting ground boom applications to corn, canola, soybean, cotton, and olives must wear:

- Long-sleeved shirt and long pants
- Shoes and socks
- Chemical-resistant gloves including barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, or Viton® ≥14 mils

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.

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

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 washwaters or rinsate.

This pesticide is toxic to vascular plants and must be used strictly in accordance with the drift and runoff 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, including 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 run-off is specified.

PHYSICAL OR CHEMICAL HAZARDS

Do not use with or store near oxidizing agents since hazardous chemical reaction may occur.

DIRECTIONS FOR USE

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

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

Not for Use in Nassau and Suffolk Counties in New York State.

AGRICULTURAL USE REQUIREMENTS

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

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **12 hours**.

Exception: The REI for workers engaged in scouting activities in corn, canola, and soybeans is 4 days. The REI for workers to move irrigation piping is 7 days for all crops.

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, including plants, soil, or water, is:

- Coveralls worn over long-sleeved shirt and long pants
- Chemical-resistant gloves including 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)

NON-AGRICULTURAL USE REQUIREMENTS

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

Keep children and pets out of treated areas until sprays have dried.

**IMPORTANT CROP SAFETY INFORMATION
READ BEFORE USING THIS PRODUCT**

Sharda Glufosinate 24.5% SL may be applied as a burndown treatment before planting or before emergence of canola, sweet corn^[*], field corn, cotton, soybean, and sugar beet^[*] designated as LibertyLink® and any conventional canola, sweet corn^[*], field corn, cotton, soybean, and sugar beet.

Post-emergence row crop applications of **Sharda Glufosinate 24.5% SL** may be made only to LibertyLink® crops. To the extent consistent with applicable law, Sharda USA LLC does not warrant the use of this product on crops other than those designated as LibertyLink® to safely withstand the application of **Sharda Glufosinate 24.5% SL**.

The basis of selectivity of **Sharda Glufosinate 24.5% SL** in LibertyLink® crops is the presence of a gene that is not sensitive to glufosinate. Crops not containing this gene will be sensitive to **Sharda Glufosinate 24.5% 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 LibertyLink® crops.

Sharda Glufosinate 24.5% SL may be applied to conventional or LibertyLink® cotton using a hooded sprayer.

Applications to trees, nut, vines, and berries must avoid contact of **Sharda Glufosinate 24.5% SL** solution, spray drift, or mist with green bark, stems, or foliage, as injury may occur to apples, trees nuts, berries, and vines. Only trunks with callused, mature dark brown bark may be sprayed unless protected from spray contact by nonporous wraps, grow tubes or waxed containers. Contact of **Sharda Glufosinate 24.5% SL** with parts of trees, berries or vines other than mature brown bark can result in serious damage.

[*Not for use in California.]

MANDATORY SPRAY DRIFT

- When applying to crops via aerial application equipment, the spray boom must be mounted on the aircraft so as to minimize drift caused by wing tip or rotor blade vortices. The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.
- When applying to crops via aerial application equipment, applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.
- For aerial applications, do not release spray at a height greater than 10 feet above the crop canopy, unless a greater application height is required for pilot safety.
- For ground applications and aerial applications, select nozzle and pressure that deliver medium to coarse spray droplets as indicated in nozzle manufacturer's catalogues and in accordance with ASABE Standard 572.1.
- Spray at the appropriate boom height based on nozzle selection and nozzle spacing, but do not exceed a boom height of 24 inches above target pest or crop canopy. Set boom to lowest effective height over the target pest or crop canopy based on equipment manufacturer's directions. Automated boom height controllers are recommended with large booms to better maintain optimum nozzle to canopy height. Excessive boom height will increase the potential for spray drift.
- For non-crop vegetation management ground applications, apply with the nozzle height no more than 4 feet above the ground or target vegetation, unless necessitated by the application equipment. Examples would include roadside, railroad,

utility rights of way, forestry and other industrial vegetation management applications where safety or natural barriers obstruct application.
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ADVISORY SPRAY DRIFT

POLLINATOR ADVISORY STATEMENT: This product contains an herbicide. Follow all label directions and precautions to minimize potential off-target exposure in order to prevent effects to non-target plants adjacent to the treated site which may serve as habitat or forage for pollinators.

Spray Drift Management

The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. 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**.)

Techniques for Controlling Droplet Size

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows usually produce larger droplets.
- **Pressure** - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.
- **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.

Techniques for Controlling Droplet Size - Aircraft

- **Number of Nozzles** - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations. AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.
- **Nozzle Type** - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.
- **Boom Length** - Longer booms increase drift potential. Therefore, a shorter boom length is recommended.
- **Application Height** - Application more than 10 feet above the canopy increases the potential for spray drift.

Boom Height - Setting the boom at the lowest referenced height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

Drift Reduction Technology (DRT) - The EPA Drift Reduction Technology (DRT) Program was developed to encourage the manufacture, marketing, and use of spray technologies scientifically verified to significantly reduce pesticide drift. The use of DRTs should result in significantly less pesticide from spray applications drifting and being deposited in areas not targeted by those applications, compared to spray technologies that do not meet the minimum DRT standard. EPA-verified drift reduction technologies (DRTs) and their ratings will be added to the following webpage as they become available at: <https://www.epa.gov/reducing-pesticide-drift/epa-verified-and-rated-drift-reduction-technologies>.

Wind - Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID APPLICATIONS DURING GUSTY OR WINDLESS CONDITIONS. **Note:** Local terrain can influence wind patterns. Every applicator needs to be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity - When making applications in hot and dry conditions, set-up equipment to produce larger droplets to reduce effects of evaporation.

Temperature Inversions - Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that 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.

Shielded Sprayers - Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

PRODUCT INFORMATION

Sharda Glufosinate 24.5% SL is a water soluble herbicide formulation for use as a foliar spray for the control of a broad spectrum of emerged annual and perennial grass and broadleaf weeds in LibertyLink® canola, LibertyLink® sweet corn^[*], LibertyLink® field corn, LibertyLink® cotton, and LibertyLink® soybean, and on olives, trees, vines, and berries. **Sharda Glufosinate 24.5% SL** may be applied for potato vine desiccation. **Sharda Glufosinate 24.5% SL** may also be applied as a broadcast burndown application before planting or before emergence of canola, sweet corn^[*], field corn, cotton, soybean, and sugar beet^[*] designated as LibertyLink® and any conventional canola, sweet corn^[*], field corn, cotton, soybean, or sugar beet.

[*Not for use in California.]

Sharda Glufosinate 24.5% SL is only foliar active with little or no activity in soil. Weeds that emerge after application will not be controlled. Make application of **Sharda Glufosinate 24.5% 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.

- **Sharda Glufosinate 24.5% SL** is rainfast 4 hours after application to most weed species, therefore, rainfall within 4 hours may necessitate retreatment or may result in reduced weed control.
- Applications need to be made between dawn and 2 hours before sunset to avoid the possibility of reduced lambsquarters and velvetleaf control.
- Consult your local Cooperative Extension Service or Sharda USA LLC representative for guidelines on the optimum application timing for **Sharda Glufosinate 24.5% 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 including drought, cool temperatures, or extended periods of cloudiness.

Restriction: 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 **Sharda Glufosinate 24.5% SL** are listed below. Failure to comply with these restrictions may result in illegal residues in rotated crops.

CROP	Minimum Rotation Interval (Days) After Last Sharda Glufosinate 24.5% SL Application
Canola, Sweet Corn, Corn, Cotton, Soybeans, and Sugar Beets	0 (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
All Other Crops	180
*See DIRECTIONS FOR POTATO VINE DESICCATION section for Rotational Crop Restrictions specifically after Sharda Glufosinate 24.5% SL applications to potatoes.	

WEED RESISTANCE MANAGEMENT

Sharda Glufosinate 24.5% SL contains glufosinate and is classified in the phosphinic acid chemical class as a Group 10 herbicide, glutamine synthetase inhibitor.

Herbicide resistance is defined as the inherited ability of a plant to survive and reproduce following exposure to a dose of herbicide normally lethal to the wild type. In a plant, resistance may be naturally occurring or induced by such techniques as genetic engineering or selection of variants produced by tissue culture or mutagenesis. Any weed population may contain or develop plants that are naturally resistant to **Sharda Glufosinate 24.5% SL** and other Group 10 herbicides. Weed species with acquired resistance to Group 10 herbicides may eventually dominate the weed population if Group 10 herbicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by **Sharda Glufosinate 24.5% SL** or other Group 10 herbicides.

To delay herbicide resistance, consider the below best practices for resistance management:

- Plant into weed-free fields and keep fields as weed-free as possible.
- To the extent possible, use a diversified approach toward weed management. Whenever possible, incorporate multiple weed-control practices including mechanical cultivation, biological management practices, and crop rotation.
- Fields with difficult to control weeds should be rotated to crops that allow the use of herbicides with alternative mechanisms of action or different management practices.
- To the extent possible, do not allow weed escapes to produce seeds, roots or tubers. Manage weed seeds at harvest and post-harvest to prevent a buildup of the weed seed-bank.
- Prevent field-to-field and within-field movement of weed seed or vegetative propagules. Thoroughly clean plant residues from equipment before leaving fields.
- Prevent an influx of weeds into the field by managing field borders.
- Identify weeds present in the field through scouting and field history and understand their biology. The weed-control program should consider all of the weeds present.
- Difficult to control weeds may require sequential applications of herbicides with differing mechanisms of action.
- Apply this herbicide at the correct timing and rate needed to control the most difficult weed in the field.
- Use a broad-spectrum soil-applied herbicide with a mechanism of action that differs from this product as a foundation in a weed-control program. Do not use more than 2 applications of this or any other herbicide with the same mechanism of action

on corn within a single growing season unless mixed with an herbicide with another mechanism of action with an overlapping spectrum for the difficult-to-control weeds.

- If resistance is suspected, treat weed escapes with an herbicide with a different MOA or use non-chemical methods to remove escapes.
- Monitor treated weed populations for loss of field efficacy.
- Scout field(s) before and after application.
- Report lack of performance to registrant or their representative.

Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species.

Contact your local sales representative, extension agent, or certified crop advisors to find out if suspected resistant weeds to this MOA have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions. Tank mix products so that there are multiple effective mechanisms of action for each target weed.

INTEGRATED WEED PEST MANAGEMENT

Integrate **Sharda Glufosinate 24.5% SL** into an overall weed management strategy whenever the use of an herbicide is required. Practices known to reduce weed development (tillage, crop competition) and herbicide use (weed scouting, proper application timing, banding) should be followed wherever possible. Contact your local extension specialist, certified crop advisory and/or Sharda USA LLC representative for additional resistance management or IPM recommendation. Also, for more information of Weed Resistance Management, visit the Herbicide Resistance Action Committee (HRAC) on the web at: <http://www.hracglobal.com>.

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. **Sharda Glufosinate 24.5% SL** needs to 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° or 110° flat fan nozzles is highly specified for optimum spray coverage and canopy penetration. Application of the spray at a 45° angle forward will result in better spray coverage. **Under dense weed/crop canopies a broadcast rate of 15-20 gallons of water per acre needs to be used so that thorough spray coverage will be obtained.** DO NOT use raindrop nozzles. See the **SPRAY DRIFT MANAGEMENT** section of this label for additional information on proper application of **Sharda Glufosinate 24.5% SL**.

Aerial Application

Poor coverage will result in reduced weed control. For optimal weed control, apply **Sharda Glufosinate 24.5% SL** in a minimum of 10 gallons per acre. See the **SPRAY DRIFT MANAGEMENT** section of this label for additional information on proper application of **Sharda Glufosinate 24.5% SL**.

MIXING INSTRUCTIONS

Cleaning Instructions

Before using **Sharda Glufosinate 24.5% 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 needs to be thoroughly rinsed using a commercial tank cleaner.

After using **Sharda Glufosinate 24.5% 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.

Tank Mixing Instructions

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Sharda Glufosinate 24.5% 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. No label dosage rates may be exceeded. **Sharda Glufosinate 24.5% SL** cannot be mixed with any product containing a label prohibition against such mixing. Refer to the specific crop section for rates and restrictions. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Sharda Glufosinate 24.5% SL must be applied with properly calibrated and clean equipment. **Sharda Glufosinate 24.5% SL** is formulated to mix readily in water. Before adding **Sharda Glufosinate 24.5% 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 **Sharda Glufosinate 24.5% 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 **Sharda Glufosinate 24.5% 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 specified 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.

Compatibility Test for Tank Mixtures

If **Sharda Glufosinate 24.5% SL** is to be mixed with pesticide products not listed on this label, test the compatibility of the intended tank mixture before 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 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 **Sharda Glufosinate 24.5% 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 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.

WEED CONTROL FOR ROW CROPS

Rates in ounces of formulated product per acre for the control of weeds as shown in the weed control tables. In weed populations with mixed species, apply at a rate needed for the species targeting less than three inch weeds.

BROADLEAF WEED CONTROL

Weed Species	C = Control NA = Not Advised S = Suppression		Weed Species	C = Control NA = Not Advised S = Suppression	
	22 Fl. Oz./Acre (0.40 lb. a.i./A)	29-43 Fl. Oz./Acre (0.53-0.79 lb. a.i./A)		22 Fl. Oz./Acre (0.40 lb. a.i./A)	29-43 Fl. Oz./Acre (0.53-0.79 lb. a.i./A)
Amaranth, Palmer	NA	C	Morningglory, Sharppod	C	C
Anoda, Spurred	C	C	Morningglory, Smallflower	C	C
Beggarweed, Florida	C	C	Morningglory, Tall	C	C
Black, Medic	C	C	Mustard, Wild	C	C
Blueweed, Texas	C	C	Nightshade, Black	C	C
Buckwheat, Wild	C	C	Nightshade, Eastern Black	C	C
Buffalobur	C	C	Nightshade, Hairy	C	C
Burcucumber	C	C	Pennycress (Stinkweed)	C	C
Canola, volunteer ¹	C ₁	C ₁	Pigweed, Redroot	C	C
Catchweed Bedstraw (Cleavers)	C	C	Pigweed, Prostrate	C	C
Carpetweed	C	C	Pigweed, Spiny	C	C
Chickweed, Common	C	C	Pigweed, Smooth	C	C
Cocklebur, Common	C	C	Pigweed, Tumble	C	C
Copperleaf, Hophornbeam	C	C	Puncturevine	C	C
Cotton, Volunteer ¹	C ₁	C ₁	Purslane, Common	C	C
Croton, Tropic	C	C	Pusley, Florida	S	C
Croton, Woolly	C	C	Ragweed, Common	C	C
Eclipta	C	C	Ragweed, Giant	C	C
Devil's Claw	C	C	Senna, Coffee	C	C
Fleabane, Annual	C	C	Sesbania, Hemp	C	C
Galinsoga, Hairy	C	C	Shepherd's Purse	C	C
Galinsoga, Small Flower	C	C	Sicklepod (Java Bean)	C	C

Groundcherry, Cutleaf	C	C	Sida, Prickly	C	C
Geranium, Cutleaf	C	C	Smartweed, Pennsylvania	C	C
Hempnettle	C	C	Smellmelon	C	C
Horsenettle, Carolina ²	C ₂	C ₂	Sowthistle, Annual	C	C
Jimsonweed	C	C	Soybeans, Volunteer ¹	C ₁	C ₁
Knotweed	C	C	Spurge, Prostrate	C	C
Kochia	C	C	Spurge, Spotted	C	C
Ladysthumb	C	C	Starbur, Bristly	C	C
Lambsquarters, Common	C	C	Sunflower, Common	C	C
Mallow, Common	C	C	Sunflower, Prairie	C	C
Mallow, Venice	C	C	Sunflower, Volunteer	C	C
Marestail ³	S ₃	C ₃	Thistle, Russian ²	S ₂	C ₂
Marshelder, Annual	C	C	Velvetleaf	C	C
Morningglory, Entireleaf	C	C	Waterhemp, Common	NA	C
Morningglory, Ivyleaf	C	C	Waterhemp, Tall	NA	C
Morningglory, Pitted	C	C			

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

²May require sequential applications for control.

³For optimum control, apply Sharda Glufosinate 24.5% SL on 6" marestail.

GRASS WEED CONTROL

Weed Species	C = Control NA = Not Advised S = Suppression		Weed Species	C = Control NA = Not Advised S = Suppression	
	22 Fl. Oz./Acre (0.40 lb. a.i./A)	29-43 Fl. Oz./Acre (0.53-0.79 lb. a.i./A)		22 Fl. Oz./Acre (0.40 lb. a.i./A)	29-43 Fl. Oz./Acre (0.53-0.79 lb. a.i./A)
Barley, Volunteer ³	C ₃	C ₃	Millet, Wild Proso	C	C
Barnyardgrass	C	C	Millet, Proso Volunteer	C	C
Bluegrass, Annual	C	C	Oat, Wild ⁴	C ₂	C ₂
Corn, Volunteer ¹	C ₁	C ₁	Panicum, Fall	C	C
Crabgrass, Large ²	C ₂	C ₂	Panicum, Texas	C	C
Crabgrass, Smooth ²	C ₂	C ₂	Rice, Red	C	C
Cupgrass, Woolly	C	C	Rice, Volunteer ¹	C ₁	C ₁
Foxtail, Bristly	C	C	Sandbur, Field ²	S ₂	C ₂
Foxtail, Giant	C	C	Shattercane	C	C
Foxtail, Green	C	C	Signalgrass, Broadleaf	C	C
Foxtail, Robust Purple	C	C	Sprangletop	C	C
Foxtail, Yellow ²	C ₂	C ₂	Sorghum, Volunteer	C	C
Goosegrass ³	C ₃	C ₃	Stinkgrass	C	C
Johnsongrass, Seedling	C	C	Wheat, Volunteer ²	C ₂	C ₂
Junglerice	C	C	Witchgrass	C	C

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

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

³A 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 **Sharda Glufosinate 24.5% SL** are specified (29 fl. oz./A (0.53 lbs. a.i./A) followed by 43 fl. oz./A (0.53 lbs. a.i./A)).

Alfalfa	Clover, Alsike	Nutsedge, Purple
Artichoke, Jerusalem	Clover, Red	Nutsedge, Yellow
Bermudagrass	Dandelion*	Orchardgrass
Bindweed, Field	Dock, Smooth*	Poinsettia, 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, Woollyleaf	Muhly, Wirestem*	Timothy*
Chickweed, Mouse Ear	Nightshade, Silverleaf*	Wormwood, Biennial

*Suppression Only.

See the **DIRECTIONS FOR USE - COTTON section of this label for additional use rates.

DIRECTIONS FOR USE - BURNDOWN USE

Sharda Glufosinate 24.5% SL may be applied as a burndown treatment before planting or before emergence of canola, sweet corn^[*], field corn, cotton, soybean, and sugar beet^[*] designated as LibertyLink® and any conventional canola, sweet corn^[*], field corn, cotton, soybean, or sugar beet. For best results, make application to emerged, young, actively growing weeds. Warm temperatures, high humidity, and bright sunlight improve the performance of **Sharda Glufosinate 24.5% SL**. Weed control may be

reduced when applications are made to weeds under stress due to drought or cool temperatures.

[*Not for use in California.]

Crops	Application Directions
Canola, Sweet Corn ^[*] , and Field Corn	If environmental conditions prevent timely applications, a single application may be made of up to 43 fl. oz./A (0.79 lb. a.i./A) of Sharda Glufosinate 24.5% SL . No additional applications of Sharda Glufosinate 24.5% SL may be made post-emergence to the crop during the year.
Cotton	If environmental conditions prevent timely applications, a single application may be made of up to 43 fl. oz./A (0.79 lb. a.i./A) of Sharda Glufosinate 24.5% SL . If more than 29 fl. oz./A (0.53 lb. a.i./A) are used in any single application, the yearly total may not exceed 72 fl. oz./A (1.32 lb. a.i./A), including all application timings.
Soybean	If environmental conditions prevent timely applications, a single application may be made of up to 43 fl. oz./A (0.79 lb. a.i./A) of Sharda Glufosinate 24.5% SL . If 29-43 fl. oz./A (0.53 - 0.79 lb. a.i./A) are used in a single burndown application, one additional in season application may be made at up to 29 fl. oz./A (0.53 lb. a.i./A). The yearly total may not exceed 87 fl. oz./A (1.59 lbs. a.i./A), including all application timings.
Sugar Beet ^[**]	If environmental conditions prevent timely applications, a single application may be made of up to 36 fl. oz./A (0.66 lb. a.i./A) of Sharda Glufosinate 24.5% SL . No additional applications of Sharda Glufosinate 24.5% SL may be made post-emergence to the crop during the year.
[*Not for use in California.]	
[**Not for use on LibertyLink [®] sugar beets in California.]	

Crop (Conventional)	Burndown	In-Season Applications	Yearly Max
Cotton Use Pattern 1	29 fl. oz./A (0.53 lb. a.i./A)	2 applications at 29 fl. oz./A (0.53 lb. a.i./A) ¹ Make second application 10 days after the first application.	87 fl. oz./A (1.59 lbs. a.i./A)
Cotton Use Pattern 2	30 - 43 fl. oz./A (0.55-0.79 lb. a.i./A)	1 application at 29 fl. oz./A (0.53 lb. a.i./A) ¹	72 fl. oz./A (1.32 lbs. a.i./A)
Canola, Soybean, Sweet Corn ^[*] , Field Corn Use Pattern	29 - 43 fl. oz./A (0.53-0.79 lb. a.i./A)	None	43 fl. oz./A (0.79 lb. a.i./A)
Sugar Beet	29 - 36 fl. oz./A (0.53-0.66 lb. a.i./A)	None	36 fl. oz./A (0.66 lb. a.i./A)
¹ LibertyLink [®] cotton OR with hooded sprayer for non-LibertyLink [®] varieties (see DIRECTIONS FOR USE - COTTON). [*Not for use in California.]			

Crop (LibertyLink [®] Varieties Only)	Burndown	In Season Applications (LibertyLink [®] Varieties only)	Yearly Max
Cotton Use Pattern 1	29 fl. oz./A (0.53 lb. a.i./A)	1 to 2 applications at 29 fl. oz./A (0.53 lb. a.i./A) Make second application 10 days after the first application.	87 fl. oz./A (1.59 lbs. a.i./A)
Cotton Use Pattern 2	30 - 43 fl. oz./A (0.55-0.79 lb. a.i./A)	1 application at 29 fl. oz./A (0.53 lb. a.i./A)	72 fl. oz./A (1.32 lbs. a.i./A)
Canola	29 - 43 fl. oz./A (0.53-0.79 lb. a.i./A)	1 to 2 applications at 29 fl. oz./A (0.53 lb. a.i./A) Make second application at least 10 days after the first application.	87 fl. oz./A (1.59 lbs. a.i./A)
Field Corn, Soybean	29 - 43 fl. oz./A (0.53-0.79 lb. a.i./A)	Up to 2 applications at 29 - 43 fl. oz./A (0.53-0.79 lb. a.i./A) For soybeans, make second application at least 5 days after the first application. For field corn, make second application at least 7 days after first application.	87 fl. oz./A (1.59 lbs. a.i./A)
Sweet Corn ^[*]	22 fl. oz./A (0.40 lb. a.i./A)	1 to 2 applications at 22 fl. oz./A (0.40 lb. a.i./A) Make second application at least 7 days after the first application.	44 fl. oz./A (0.80 lb. a.i./A)
Sugar Beet ^[*]	29 - 36 fl. oz./A (0.53-0.66 lb. a.i./A)	1 application at 29 fl. oz./A (0.53 lb. a.i./A)	60 fl. oz./A (1.10 lbs. a.i./A)
[*Not for use in California.]			

DIRECTIONS FOR USE - SUGAR BEETS
[(Not for use in California.)]

THOROUGH SPRAY COVERAGE IS VERY IMPORTANT. Apply **Sharda Glufosinate 24.5% SL** only to sugar beets labeled as LibertyLink[®]. **Sharda Glufosinate 24.5% SL** works best when weeds are actively growing. A cultivation may be made at least 5 days before a **Sharda Glufosinate 24.5% SL** application or 5 days after a **Sharda Glufosinate 24.5% SL** application.

Application Timing

Applications of **Sharda Glufosinate 24.5% SL** on sugar beets may be made from the cotyledon stage up to the 10-leaf stage of the sugar beet. **Sharda Glufosinate 24.5% SL** is a foliar active material with no soil residual activity.

For best results, make application to emerged, young, actively growing weeds less than 3 inches in height. For additional information on weed heights, refer to the **WEED CONTROL FOR ROW CROPS** section.

Sharda Glufosinate 24.5% SL will have an effect on weeds that are larger than the specified 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. **Sharda Glufosinate 24.5% SL** is rainfast 4 hours after application, therefore rainfall within 4 hours may necessitate retreatment. For best results, on lambsquarters, Palmer amaranth and velvetleaf control, make applications of Glufosinate between dawn and 2 hours before sunset.

Application Rates

Apply 29 – 36 fluid ounces per acre (0.53 – 0.66 lb. a.i./A) depending on weed species, size and density per weed chart. If a second application is needed, make the second application in a minimum of 10 days after the first application. The maximum annual rate of **Sharda Glufosinate 24.5% SL** on sugar beets is 60 fl. oz./A (1.10 lbs. a.i./A).

Use a minimum spray volume of 15 gallons per acre, unless there is a difficult to control situation (including dense canopy, large weeds or unfavorable growing conditions are present). In difficult to control situations use a minimum spray volume of 20 gallons per acre.

Adjuvants

Ammonium sulfate (AMS) may be used at 1.5 to 3.5 lbs./A. Adjuvant rates are dependent on a variety of factors including tank mix partners, environmental conditions (including temperature) and potential for leaf burn. AMS has shown to improve weed control of difficult-to-control weeds like lambsquarters and velvetleaf under difficult environmental conditions (including low relative humidity) or hard water. The use of an anti-foam agent is advised.

Surfactants/Oils

The use of additional surfactants or crop oils in tank mixes with **Sharda Glufosinate 24.5% SL** may increase the risk of crop response. Please refer to the surfactant label for more detailed information.

Nozzle Spray Quality

Use medium to coarse nozzles. **Sharda Glufosinate 24.5% SL** is a contact herbicide and requires proper nozzles with uniform thorough spray coverage to achieve optimum weed control.

See **SPRAY DRIFT MANAGEMENT** section for more detailed information.

Restrictions - Sugar Beets

- Do not make application of more than 36 fl. oz./A (0.66 lbs. a.i./A) of **Sharda Glufosinate 24.5% SL** in 1 application.
- Do not make application of more than 60 fl. oz./A (1.10 lbs. a.i./A) of **Sharda Glufosinate 24.5% SL** on the sugar beet per year.
- Do not apply more than 2 applications per year.
- If a second application is needed, make the second application in a minimum of 10 days after the first application.
- Do not make application of **Sharda Glufosinate 24.5% SL** within 60 days of harvesting sugar beets.
- Do not plant rotation crops in a field treated with **Sharda Glufosinate 24.5% 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. LibertyLink® corn, soybeans, canola, and sugar beets may be planted at any time.
- Do not graze the treated crop or cut for hay.
- Do not add surfactants. Antifoams or drift control agents may be added if needed.
- Do not make application of **Sharda Glufosinate 24.5% SL** if sugar beets show injury from prior herbicide or environmental stress (drought, excessive rainfall, etc.).
- Do not make application of **Sharda Glufosinate 24.5% SL** through any type of irrigation system.

DIRECTIONS FOR USE - CANOLA

Make application of **Sharda Glufosinate 24.5% 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, make application to emerged, young actively growing weeds. Warm temperatures, high humidity, and bright sunlight improve the performance of **Sharda Glufosinate 24.5% 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 **Sharda Glufosinate 24.5% 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.

Make application of **Sharda Glufosinate 24.5% SL** at 22 - 29 fl. oz./A (0.40 - 0.53 lbs. a.i./A) per application. A second application of **Sharda Glufosinate 24.5% SL** may be needed to control weeds that have not yet emerged at the time of application.

Restrictions - 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 2 applications of **Sharda Glufosinate 24.5% SL** per year. Sequential applications need to be at least 10 days apart.
- Do not make application of **Sharda Glufosinate 24.5% SL** within 65 days of harvesting canola.
- Do not make application of more than 87 fl. oz. (1.59 lbs. a.i./A) of **Sharda Glufosinate 24.5% SL** per year.
- Do not exceed the maximum single application rate of 43 fl. oz./A (0.79 lb. a.i./A).
- If **Sharda Glufosinate 24.5% 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 make application of **Sharda Glufosinate 24.5% SL** if canola shows injury from prior herbicide applications or environmental stress (drought, excessive rainfall, etc.).
- Do not make application of **Sharda Glufosinate 24.5% SL** through any type of irrigation system.

Refer to the **ROTATIONAL CROP RESTRICTIONS** section for the appropriate rotational crop information.

Spray Additives

Sharda Glufosinate 24.5% SL must be applied with ammonium sulfate (AMS). Use only fine feed grade or spray grade AMS at 3 lbs. 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.

Tank Mixtures - Canola

Sharda Glufosinate 24.5% SL at 22 fl. oz./A (0.40 lbs. a.i./A) plus AMS may be used in tank mix combination with certain herbicides for improved control of larger than labeled grasses. The AMS rate may be reduced to 1.5 lbs./A when **Sharda Glufosinate 24.5% SL** is tank mixed with a reduced rate of one of the grass herbicides specified below.

Sharda Glufosinate 24.5% 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. When tank mixing, DO NOT exceed specified application rates. **Sharda Glufosinate 24.5% SL** cannot be mixed with any product containing a label prohibition against such mixing. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Tank Mix Partners for Sharda Glufosinate 24.5% SL on Invigor LibertyLink® Canola

Tank Mix Partner
Quizalofop-p-ethyl
Sethoxydim
Clethodim

APPLICATION RATE AND TIMING TO LIBERTYLINK® CANOLA FOR SEED PROPAGATION

[Note to reviewer: The following text in [] is optional text and may appear on the final label [(Not for use in California.)]

Up to 3 applications of **Sharda Glufosinate 24.5% SL** at up to 29 fl. oz./A (0.53 lbs. a.i./A) per application may be made to LibertyLink® canola for 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 - LibertyLink® Canola For Seed Propagation

- Do not make application of more than 3 applications of **Sharda Glufosinate 24.5% SL** at up to 29 fl. oz./A (0.53 lb. a.i./A) per application per year.
- Sequential applications must be made more than 10 days apart.
- Do not make application of more than 87 fl. oz./A (1.59 lbs. a.i./A) of **Sharda Glufosinate 24.5% SL** per year.
- Do not make application of **Sharda Glufosinate 24.5% SL** 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 make application of **Sharda Glufosinate 24.5% SL** if canola shows injury from prior herbicide applications or environmental stress (drought, excessive rainfall, etc.).
- Do not make application of **Sharda Glufosinate 24.5% SL** through any type of irrigation system.

DIRECTIONS FOR USE - SWEET CORN

[(Not for use in California.)]

Make application of **Sharda Glufosinate 24.5% SL** only to sweet corn labeled as LibertyLink®.

Application Timing

Applications for **Sharda Glufosinate 24.5% SL** on sweet corn may be made from emergence until sweet corn is 24" tall or in the V-6 stage of growth (i.e., 6 developed collars), whichever comes first. Make application at a rate of 22 fl. oz./A (0.40 lb. a.i./A). **Sharda Glufosinate 24.5% SL** must be applied with ammonium sulfate (AMS) for use on sweet corn. Two applications of **Sharda Glufosinate 24.5% SL** can be made to sweet corn in a year.

Refer to the "ROTATIONAL CROP RESTRICTIONS" section for the appropriate rotational crop plant back intervals.

See “**DIRECTIONS FOR USE - FIELD CORN AND SILAGE CORN**” for Application Methods, Mixing Instructions, and Weed Control tables.

Restrictions - Sweet Corn

- Do not make application of **Sharda Glufosinate 24.5% SL** within 50 days of harvesting sweet corn ears and within 55 days of harvesting stover.
- Do not make application of more than 44 fl. oz./A (0.80 lbs. a.i./A) of **Sharda Glufosinate 24.5% SL** on sweet corn per year.
- Do not make application of more than 2 applications of **Sharda Glufosinate 24.5% SL** to the sweet corn per year. Sequential applications need to be at least 10 days apart.
- Do not exceed the maximum single application rate of 22 fl. oz./A (0.40 lb. a.i./A).
- If **Sharda Glufosinate 24.5% SL** was used in a burndown application, no post-emergence applications may be made to the crop.
- Do not use nitrogen solutions as spray carriers. A silicone-based antifoam agent may be added if needed.
- Do not make application of **Sharda Glufosinate 24.5% SL** if corn shows injury from prior herbicide applications or environmental stress (drought, excessive rainfall, etc.).
- Do not make application of **Sharda Glufosinate 24.5% SL** through any type of irrigation system.

Tank Mixtures - Sweet Corn

Sharda Glufosinate 24.5% SL may be tank mixed with tembotrione, mesotrione, atrazine, or halosulfuron. When using **Sharda Glufosinate 24.5% SL** in tank mix combinations, carefully follow the “Directions for Use” labeling of the selected partner. When tank mixing, DO NOT exceed specified application rates. **Sharda Glufosinate 24.5% SL** cannot be mixed with any product containing a label prohibition against such mixing. It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

DIRECTIONS FOR USE - FIELD CORN AND SILAGE CORN

Make application of **Sharda Glufosinate 24.5% SL** only to corn labeled LibertyLink®. Uniform thorough spray coverage is necessary to achieve consistent weed control.

Application Rate and Timing

For best results, make application to emerged, young, actively growing weeds. Warm temperatures, high humidity, and bright sunlight improve the performance of **Sharda Glufosinate 24.5% 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 **Sharda Glufosinate 24.5% SL** on corn may be made with over the top broadcast or drop nozzles from emergence until corn is 24” tall or in the V-6 stage of growth (i.e., 6 developed collars), whichever comes first. For corn 24” to 36” tall only, apply **Sharda Glufosinate 24.5% SL** using ground application and drop nozzles and avoid spraying into the whorl or leaf axils of the corn stalks. Applications of **Sharda Glufosinate 24.5% SL** following the use of soil applied insecticides will not injure corn.

Make application of **Sharda Glufosinate 24.5% SL** at 29 - 43 fl. oz./A (0.53 - 0.79 lbs. a.i./A) per application. A second application of **Sharda Glufosinate 24.5% 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 - Field Corn and Silage Corn

- Do not make application of **Sharda Glufosinate 24.5% SL** within 60 days of harvesting corn forage and within 70 days of harvesting corn grain and corn fodder.
- Do not make application of more than 2 applications of **Sharda Glufosinate 24.5% SL** to corn per year. Sequential applications need to be at least 10 days apart.
- Do not make application of more than 87 fl. oz./A (1.59 lbs. a.i./A) of **Sharda Glufosinate 24.5% SL** on corn per year.
- Do not exceed the maximum single application rate of 43 fl. oz./A (0.79 lb. a.i./A)
- If **Sharda Glufosinate 24.5% 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 make application of **Sharda Glufosinate 24.5% SL** if corn shows injury from prior herbicide applications or environmental stress (drought, excessive rainfall, etc.).
- Do not make application of **Sharda Glufosinate 24.5% SL** through any type of irrigation system.

Refer to the **ROTATIONAL CROP RESTRICTIONS** section for the appropriate rotational crop information.

Spray Additives

For corn and sweet corn, **Sharda Glufosinate 24.5% SL** must be applied with ammonium sulfate (AMS). It is directed to use only fine feed grade or spray grade AMS at 3 lbs. per acre (17 lbs./100 gals.). When temperatures exceed 85°F, the rate of AMS can be reduced to 1.5 lbs. per acre (8.5 lbs./100 gals.) to reduce potential leaf burn. Use of additional surfactants or crop oils may increase risk of crop response.

Tank Mixtures - Corn

Certain herbicide tank mixes may aid in the performance of **Sharda Glufosinate 24.5% SL**. No additional surfactant is needed with

any tank mix partner. **Sharda Glufosinate 24.5% 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. When tank mixing, DO NOT exceed specified application rates. **Sharda Glufosinate 24.5% SL** cannot be mixed with any product containing a label prohibition against such mixing. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Tank Mix Partners for Sharda Glufosinate 24.5% SL on LibertyLink® Corn

2,4-D	Dimethenamide-P	Pendimethalin ¹
Acetochlor	Flumetsulam	Primisulfuron-methyl
Atrazine	Glyphosate	Prosulfuron
Carfentrazone-ethyl	Halosulfuron-methyl	S-metolachlor ²
Clopyralid potassium	Mesotrione	Tembotrione
Dicamba	Metolachlor ²	Theincarbazone-methyl
Diflufenopyr	Nicosulfuron	Topramezone

¹Tank mixing with pendimethalin may result in reduced control of barnyardgrass, fall panicum, field sandbur, yellow foxtail, and volunteer corn.

²It is directed that these products are tank mixed at half the use rate with **Sharda Glufosinate 24.5% SL** to reduce risk of crop response.

Corn Insecticide Tank Mix Partners for Sharda Glufosinate 24.5% SL

To provide weed and insect control in corn, **Sharda Glufosinate 24.5% SL** may be mixed with the following insecticides:

Beta-Cyfluthrin	Lamba-Cyhalothrin
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DIRECTIONS FOR USE - COTTON

Uniform thorough spray coverage is necessary to achieve consistent weed control. **Sharda Glufosinate 24.5% SL** may be applied as a broadcast, over-the-top, post-emergence spray or as a directed spray only to LibertyLink® cotton. **Sharda Glufosinate 24.5% SL** 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. Refer to the below **Non-LibertyLink® Cotton** section for selection of shielding equipment. Severe injury or death may result if the **Sharda Glufosinate 24.5% SL** contacts the foliage or stems of cotton NOT labeled as LibertyLink®.

Application Rate and Timing

For best results, make application to emerged, young, actively growing weeds. Warm temperatures, high humidity, and bright sunlight improve the performance of **Sharda Glufosinate 24.5% SL**. Weed control may be reduced when applications are made to weeds under stress due to drought or cool temperatures. For optimum yield, early season weed removal is important.

Make application of **Sharda Glufosinate 24.5% SL** to cotton from emergence up to the early bloom stage at 29 fl. oz./A (0.53 lb. a.i./A). If environmental conditions prevent a timely herbicide application, a single application of up to 43 fl. oz./A (0.79 lb. a.i./A) of **Sharda Glufosinate 24.5% SL** may be made to cotton. If more than 29 fl. oz./A (0.53 lb. a.i./A) are used in any single application, the yearly total may not exceed 72 fl. oz./A (1.32 lb. a.i./A), including all application timings. See restrictions to the **DIRECTIONS FOR USE - 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, cotton, soybeans, and sugar beets) from the previous season will not be controlled by applications of **Sharda Glufosinate 24.5% SL**. A repeat application of **Sharda Glufosinate 24.5% 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 Mixtures - Cotton** section to select suitable tank mix partners.

Use Pattern	1 st Application	2 nd Application Minimum 10 days up to 14 days after 1 st application	3 rd Application Minimum 10 days up to 14 days after 2 nd application	Yearly Maximum
Option 1	32 - 43 fl. oz./A (0.59-0.79 lb. a.i./A)	29 fl. oz./A (0.53 lb. a.i./A)	None	72 fl. oz./A (1.32 lbs. a.i./A)
Option 2	29 fl. oz./A (0.53 lb. a.i./A)	29 fl. oz./A (0.53 lb. a.i./A)	29 fl. oz./A (0.53 lb. a.i./A)	87 fl. oz./A (1.59 lbs. a.i./A)

Restrictions - Cotton

- Do not make application of **Sharda Glufosinate 24.5% SL** to cotton in Florida - South of Tampa (Florida Route 60), or in Hawaii (except for test plots or breeding nurseries).
- Do not make application of **Sharda Glufosinate 24.5% SL** within 70 days before cotton harvest.
- Up to 3 applications of **Sharda Glufosinate 24.5% SL** may be made to cotton per year at a maximum application rate of 29 fl. oz./A (0.53 lbs. a.i./A). Sequential applications need to be at least 10 days apart.
- Do not make application of more than 87 fl. oz. (1.59 lbs. a.i./A) (including all application timings) to cotton per year under this application scenario.
- If environmental conditions prevent timely applications resulting in large weeds or heavy infestations, a single application of **Sharda Glufosinate 24.5% SL** at up to 43 fl. oz./A (0.79 lbs. a.i./A) may be made to cotton.
- Do not make application of more than 43 fl. oz. (0.79 lbs. a.i./A) of **Sharda Glufosinate 24.5% SL** in a single application under this use scenario. If a single application greater than 29 fl. oz. (0.53 lbs. a.i./A) is made, a subsequent application not to exceed

29 fl. oz. (0.53 lbs. a.i./A) may be made to cotton. The yearly total use rate under this scenario may not exceed 72 fl. oz. (1.32 lbs. a.i./A) of **Sharda Glufosinate 24.5% SL**. Sequential applications need to be made at least 10 days apart.

- Do not make application of **Sharda Glufosinate 24.5% SL** through any type of irrigation system.

Refer to the **ROTATIONAL CROP RESTRICTIONS** section for the appropriate rotational crop information.

Application Methods - LibertyLink® Cotton

Refer to the **WEED CONTROL FOR ROW CROPS** tables 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, make application of **Sharda Glufosinate 24.5% SL** to LibertyLink® cotton as an over-the-top foliar spray directed to the lower one-third of the cotton stand.

Application Methods - Non-LibertyLink® Cotton

Application of **Sharda Glufosinate 24.5% 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:

$$\frac{\text{Band Width in Inches}}{\text{Row Width in Inches}} \times \text{Broadcast Rate per Acre} = \text{Amount of Banded Product needed per Acre}$$

$$\frac{\text{Band Width in Inches}}{\text{Row Width in Inches}} \times \text{Broadcast Spray Volume per Acre} = \text{Banded Spray Volume needed per Acre}$$

Post-Harvest

Sharda Glufosinate 24.5% SL may be applied as a post-harvest burndown treatment to fields (after cotton harvest). Up to 43 fl. oz./A (0.79 lb. a.i./A) of **Sharda Glufosinate 24.5% 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 (0.53 lb. a.i./A) is used in a single application, the yearly total may not exceed 72 fl. oz./A (1.32 lb. a.i./A), including all application timings. Refer to the **ROTATIONAL CROP RESTRICTIONS** section for the appropriate rotational crop information.

Tank Mixtures - Cotton

Certain tank mixes may aid in the performance of **Sharda Glufosinate 24.5% SL**. No additional surfactant is needed with any tank mix partner. **Sharda Glufosinate 24.5% SL** may be applied in tank mix combination 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. When tank mixing, DO NOT exceed specified application rates. **Sharda Glufosinate 24.5% SL** cannot be mixed with any product containing a label prohibition against such mixing. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

- **LibertyLink® Cotton** - For LibertyLink® cotton to **Sharda Glufosinate 24.5% SL**, S-Metolachlor/Metolachlor or Pyriithiobac-sodium may be tank mixed with **Sharda Glufosinate 24.5% 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 tank mixed with **Sharda Glufosinate 24.5% SL** for hooded spray application to enhance weed control and/or provide residual weed control.

Post-Emergence Over-The-Top Tank Mix Partners for Sharda Glufosinate 24.5% SL on LibertyLink® Cotton

Clethodim	Metolachlor	Sethoxydim
Fenoxaprop-p-ethyl	Pyriithiobac-sodium	
Fluazifop-p-butyl	Quizalofop-p-ethyl	

DIRECTIONS FOR USE - SOYBEANS

Make application of **Sharda Glufosinate 24.5% 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, make application to emerged, young, actively growing weeds. Warm temperatures, high humidity, and bright

sunlight improve the performance of **Sharda Glufosinate 24.5% SL**. Weed control may be reduced when applications are made to weeds under stress due to drought or cool temperatures. Adding ammonium sulfate with **Sharda Glufosinate 24.5% SL** may improve weed control if weeds are under stress. For optimal yield, early season weed removal is important.

Applications of **Sharda Glufosinate 24.5% SL** on soybeans may be made from emergence up to but not including the bloom growth stage. Make application of **Sharda Glufosinate 24.5% SL** to LibertyLink® soybeans from emergence up to but not including the bloom growth stage at 29 to 43 fl. oz./A (0.53 - 0.79 lb. a.i./A). See weed chart to determine rate. If environmental conditions prevent a timely herbicide application, a single application of up to 43 fl. oz./A (0.79 lb. a.i./A) of **Sharda Glufosinate 24.5% SL** may be made to soybeans followed by one additional application at maximum of 43 fl. oz./A (0.79 lb. a.i./A) with a yearly maximum of 87 fl. oz./A (1.59 lb. a.i./A). **Sharda Glufosinate 24.5% 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 **Sharda Glufosinate 24.5% SL** can provide complete weed control, residual herbicides at burndown planting, or tank mixed with **Sharda Glufosinate 24.5% 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 Minimum of 5 days after 1 st applicaiton	Yearly Maximum
29 - 43 fl. oz./A (0.53 - 0.79 lb. a.i./A)	29 - 43 fl. oz./A (0.53 - 0.79 lb. a.i./A)	87 fl. oz./A (1.59 lbs. a.i./A)

Restrictions - Soybeans

- Do not make application of **Sharda Glufosinate 24.5% SL** within 70 days of harvesting soybean seed.
- Do not make application of more than 87 fl. oz./A (1.59 lbs. a.i./A) of **Sharda Glufosinate 24.5% SL** on soybeans per year.
- Do not make application of more than 43 fl. oz./A (0.79 lb. a.i./A) of **Sharda Glufosinate 24.5% SL** in a single application.
- Do not apply more than 3 applications per year.
- 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 make application of **Sharda Glufosinate 24.5% SL** if soybeans show injury from prior herbicide applications or environmental stress (drought, excessive rainfall, etc.).
- Sequential applications need to be at least 5 days apart.
- Do not make application of **Sharda Glufosinate 24.5% SL** through any type of irrigation system.

Refer to the **ROTATIONAL CROP RESTRICTIONS** section for the appropriate rotational crop information.

Tank Mixtures - Soybeans

Certain herbicide tank mixes may complement **Sharda Glufosinate 24.5% SL**. No additional surfactant is needed with any tank mix partner. **Sharda Glufosinate 24.5% 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. When tank mixing, DO NOT exceed specified application rates. **Sharda Glufosinate 24.5% SL** cannot be mixed with any product containing a label prohibition against such mixing. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Tank Mix Partners for Sharda Glufosinate 24.5% SL in LibertyLink® Soybeans

Acifluorfen	Flumioxazin	Quizalofop-p-ethyl
Clethodim	Fomesafen	Saflufenacil
Chlorimuron	Imazamox	Sethoxydim
Cloransulam-methyl	Imazethapyr	S-Metolachlor
Fenoxaprop-p-butyl	Lactofen	Thifensulfuron
Fluazifop-P-butyl	Metolachlor	
Flumiclorac	Pyroxasulfone	

DIRECTIONS FOR USE - CANOLA, CORN, COTTON, AND SOYBEAN SEED PROPAGATION

Sharda Glufosinate 24.5% SL may be applied to select out susceptible "segregates" (i.e. non-LibertyLink® varieties of canola, corn, cotton, and soybean plants).

Canola: **Sharda Glufosinate 24.5% SL** may also be used in canola seed propagation as a foliar spray to selectively eliminate canola plants that do not carry a LibertyLink® gene and as such, can be applied to remove susceptible segregates during canola seed propagation. See **DIRECTIONS FOR USE - CANOLA** for use rates and application timing.

Corn: A hooded sprayer may be used to protect plants from coming into contact with the herbicide application. For the selection of LibertyLink® corn segregates, **Sharda Glufosinate 24.5% SL** may be applied at 22 fl. oz./A (0.40 lb. a.i./A) plus AMS at 3 lbs./A (17 lbs./100 gals.) 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 (0.41 lb. a.i./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 need to 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 gals.) to reduce potential leaf burn.

Cotton: Sharda Glufosinate 24.5% SL may also be used in cotton seed propagation as a foliar spray to selectively eliminate cotton plants that do not carry a LibertyLink® gene and as such, can be applied to remove susceptible segregates during cotton seed propagation. See **DIRECTIONS FOR USE - COTTON** for use rates and application timing.

Soybean: For the selection of LibertyLink® soybean (segregates), **Sharda Glufosinate 24.5% SL** may be applied at up to 29 to 43 fl. oz./A (0.53 - 0.79 lb. a.i./A) when soybean is in the third trifoliolate stage. A second treatment of 29 to 43 fl. oz./A (0.53 - 0.79 lb. a.i./A) may be applied up to but not including the bloom growth stage of soybean. Sequential applications need to be at least 5 days apart.

Restrictions

- **Canola & Cotton:** Breeding material not possessing the LibertyLink® gene will be severely injured or killed if treated with this herbicide.
- **Corn:** Inbred lines (non-LibertyLink® plants) will be severely injured or killed if treated with this herbicide.

DIRECTIONS FOR USE - LISTED TREE, VINE, AND BERRY CROPS

Bushberries Group 13B (blueberry, currant, elderberry, gooseberry, huckleberry, lingonberry, juneberry, and salal); Citrus -Crop Group 10-10 (lemon, orange (sour, sweet), grapefruit, lime, mandarin, tangerine, tangelo, calamondin, kumquat, pummelo, Satsuma, citron, citrus hybrids, tangor, and cultivars, varieties and/or hybrids of these); Olives; Pome Fruit - Crop Group 11-10 (apple, pear (oriental), crabapple, loquat, mayhaw, quince, azarole, medlar, tejocote, cultivars, varieties and/or hybrids of these); Stone Fruit – Crop Group 12-12 (apricot, cherry (sweet tart), peach, nectarine, plum (chickasaw, damson, Japanese), plumcot, prune (fresh), capulin, jujube, sloe, and cultivars, varieties and/or hybrids of these); Nut Tree - Crop Group 14 (almonds, beech nut, brazil nut, butternut, cashew, chestnut, chinquapin, filberts (hazelnut), hickory nuts, macadamia nuts (bush nuts), pecans, pistachios, and walnuts (black and English (Persian))); Vineyards (all grape varieties (table, wine, and raisins))

Make application of **Sharda Glufosinate 24.5% SL** to the tree, vine, and berry crops listed below. Uniform, thorough spray coverage is necessary to achieve consistent weed control.

Application Rate and Timing

For best results, make application to emerged, young, actively growing weeds. Warm temperatures, high humidity, and bright sunlight improve the performance of **Sharda Glufosinate 24.5% 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 **Sharda Glufosinate 24.5% SL** until sufficient regrowth has occurred.

Make application of **Sharda Glufosinate 24.5% SL** as a directed spray to control undesirable vegetation in tree, vine, and berries listed on this label. Make application as a broadcast, banded, or spot treatment application depending on the situation to control weeds listed under the **Weeds Controlled in Tree, Vine, and Berry Crops** table. 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 **Sharda Glufosinate 24.5% SL** may be necessary to control plants generating from underground parts or seed.

Avoid contact of **Sharda Glufosinate 24.5% 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 need to be sprayed unless protected from spray contact by nonporous wraps, grow tubes, or waxed containers. Contact of Sharda Glufosinate 24.5% SL with parts of trees, vines, or berries other than mature brown bark can result in serious damage.**

Application Methods - Broadcast Applications

Make application of **Sharda Glufosinate 24.5% SL** at the rates listed below for broadcast applications based on weed size and stage of growth.

Weed Size and Stage	Sharda Glufosinate 24.5% SL Rate
Weeds < 3" in height	48 fl. oz./A (0.88 lb. a.i./A)
Weeds < 6" in height pre-tiller grasses	56 fl. oz./A (1.02 lbs. a.i./A)
Weeds > 6" in height and/or grasses that have tillered	56 - 82 fl. oz./A (1.02 - 1.50 lbs. a.i./A)

Application Methods - 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 - Spot or Directed Spray Applications

For spot or directed spray applications by backpack sprayers only (no mechanically pressured handgun applications allowed), mix **Sharda Glufosinate 24.5% SL** at 1.7 fl. oz. of product (0.03 lb. a.i./A) per gallon of water. Make application to undesirable vegetation foliage until wet but before 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	Fleabane, Annual	Morningglory, Ivyleaf	Smartweed, Pennsylvania
Ammannia, Purple	Goosefoot	Morningglory, Pitted	Sowthistle, Annual
Arrowhead, California	Gromwell, Field	Mullein, Turkey	Spurge, Prostrate
Buckwheat, Wild	Groundcherry, Cutleaf	Mustard, Wild	Starthistle, Yellow
Buffalobur	Groundsel, Common	Nettle	Sunflower, Common
Burclover, California	Henbit	Nightshade, Black	Sunflower, Prairie
Carpetweed	Jimsonweed	Nightshade, Eastern Black	Sunflower, Volunteer
Chickweed, Common	Knotweed	Nightshade, Hairy	Swinecress
Chinese, Thornapple	Kochia	Pennycress	Thistle, Russian
Cocklebur, Common	Lambsquarters, Common	Pigweed, Redroot	Turnip, Wild
Copperleaf, Virginia	Lettuce, Miner's	Pineapple Weed	Velvetleaf
Cudweed	Lettuce, Prickly	Puncturevine	Vervain
Cutleaf Evening Primrose	London Rocket	Purslane, Common	Vetch
Dodder	Mallow, Common	Radish, Wild	Virginia copperleaf
Eclipta	Malva (Little Mallow)	Ragweed, Common	Willowherb, Panicle
Fiddleneck	Marestail	Ragweed, Giant	
Filaree	Mayweed	Redmaids	
Filaree, Redstem	Morningglory, Entireleaf	Shepherd's Purse	
Grass Weeds			
Barnyardgrass	Crabgrass, Smooth	Junglerice	Shattercane
Bluegrass, Annual	Cupgrass, Woolly	Oat, Wild	Sprangletop
Brome, Rippgut	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	
Biennial and Perennial Weeds			
Aster, White Heath	Dallisgrass	Mustard, Tansy	<i>Rubus</i> spp.
Bindweed, Field	Dandelion	Nutsedge, Purple	Spurge, Leafy
Bindweed, Hedge	Dock, Curly	Nutsedge, Yellow	Thistle, Bull
Bluegrass, Kentucky	Dogbank, Hemp	Onion, Wild	Thistle, Musk
Bromegrass, Smooth	Fescue	Orchardgrass	Torpedograss
Bulrush*	Goldenrod, Gray	Paragrass	Vaseygrass
Burdock	Guineagrass	Plantain	Woodsorrel
Canada Thistle	Horsetail	Poison Ivy/Oak	Yarrow, Common
Clover, Alsike	Love Grass	Quackgrass	
Clover, Red	Mugwort	Rocket, Yellow	
Clover, White	Mullein, Common	Rose, Wild	
*Make application to annual ryegrass before 3" in height.			
**Indicates suppression.			

Restrictions - Tree, Vine, and Berry Crops

- Do not make application of more than 164 fl. oz. of **Sharda Glufosinate 24.5% SL** per acre (3 lbs. a.i./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. a.i./A) per application to berry bushes and stone fruit.
- Do not make application of more than 246 fl. oz. (4.5 lbs. a.i./A) of **Sharda Glufosinate 24.5% SL** 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./A (1.50 lbs. a.i./A) per application to tree nuts, vines, pome fruits, citrus and olives.
- Do not graze, harvest, and/or feed treated orchard cover crops to livestock.
- Do not make application of this product aerially to tree, berry, or vine crops.
- Do not make application of 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.
- Applications to berry bushes must be a minimum of 14 days apart.
- Do not make spot spray applications to suckers, as tree injury may occur.
- Do not make application of **Sharda Glufosinate 24.5% SL** through any type of irrigation system.

Sucker Control with Sharda Glufosinate 24.5% SL

Sharda Glufosinate 24.5% SL will reduce or eliminate sucker growth when applied to suckers that are young, green, and uncalled. For sucker control, make application of a split application approximately 4 weeks apart at 56 fl. oz. of **Sharda Glufosinate 24.5% SL** per acre (1.02 lbs. a.i./A). Coverage of all sucker foliage is necessary for optimum control. Suckers must not exceed 12" in length.

Tank Mixtures - Tree, Vine, and Berry Crops

Sharda Glufosinate 24.5% SL does not provide residual weed control or control of unexposed plant parts. Certain herbicide tank mixes may aid in the performance of **Sharda Glufosinate 24.5% SL** or be added to provide residual herbicide activity. No additional surfactant is needed with any tank mix partner. **Sharda Glufosinate 24.5% 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. When tank mixing, DO NOT exceed specified application rates. **Sharda Glufosinate 24.5% SL** cannot be mixed with any product containing a label prohibition against such mixing. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Flumioxazin	Simazine	Terbacil
Napropamide	Norflurazon	
Diuron	Oryzalin	

DIRECTIONS FOR USE - POTATO VINE DESICCATION**Application Rate and Timing**

Make application of **Sharda Glufosinate 24.5% SL** at the beginning of natural senescence of potato vines. Make application of 21 fl. oz./A (0.38 lbs. a.i./A). 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 gals./acre) 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 gals. of water per acre when the potato vine canopy is dense or under cool and dry conditions. Make application of **Sharda Glufosinate 24.5% 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 - Potato Vine Desiccation

- Do not make application of more than 21 fl. oz./A (0.38 lb. a.i./A) of **Sharda Glufosinate 24.5% SL** to potato vines per year.
- Do not apply more than one application per year.
- Do not harvest potatoes until 9 days or more after application of **Sharda Glufosinate 24.5% SL**.
- Do not make application to potatoes grown for seed.
- Canola, corn, cotton, potatoes, soybean, and sugar beets may be planted at any time after the application of **Sharda Glufosinate 24.5% 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 **Sharda Glufosinate 24.5% SL** as a potato vine desiccant.
- Do not plant treated areas to root and tuber vegetables, leafy vegetable, and brassica vegetable until 70 days after an application of **Sharda Glufosinate 24.5% 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 **Sharda Glufosinate 24.5% SL** as a potato vine desiccant.
- Do not split up applications.

DIRECTIONS FOR USE - FALLOW FIELDS OR POST-HARVEST

Sharda Glufosinate 24.5% 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. Applications may be made in fallow fields, post-harvest, before planting or emergence of any crop listed on this label.

Make application of **Sharda Glufosinate 24.5% SL** at 22 or 29 fl. oz./A (0.40 - 0.53 lb. a.i./A) to fallow fields to control specific weeds. **Sharda Glufosinate 24.5% SL** must be applied with ammonium sulfate. Tank mixes with 2,4-D, glyphosate or atrazine may be used with **Sharda Glufosinate 24.5% SL** to enhance total weed control. When tank mixing, DO NOT exceed specified application rates. **Sharda Glufosinate 24.5% SL** cannot be mixed with any product containing a label prohibition against such mixing. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. See the **APPLICATION AND MIXING PROCEDURES** section for additional information on how to apply this product. Refer to the **ROTATIONAL CROP RESTRICTIONS** section for the appropriate rotational crop information.

Use Restrictions in Fallow Fields or Post-Harvest

- Do not apply more than 29 fl. oz./A (0.53 lb. a.i./A) of **Sharda Glufosinate 24.5% SL** in a single application.
- Do not apply more than 87 fl. oz./A (1.59 lbs. a.i./A) of **Sharda Glufosinate 24.5% SL** per year.
- Do not make more than 3 applications of **Sharda Glufosinate 24.5% SL** per year.
- Do not make sequential applications sooner than 14 days apart.

DIRECTIONS FOR NON-CROP USES

Sharda Glufosinate 24.5% SL controls annual and perennial weeds in non-crop areas defined below in the "**Where to Apply**" section. Applications may be made on a broadcast, banded or spot treatment basis depending on the situation. 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 treatments may be necessary to control plants generating from underground parts or seed.

When to Apply

Sharda Glufosinate 24.5% SL is a foliar-active material. Best results are obtained when weeds are actively growing. 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 of the highest rate directed. **Sharda Glufosinate 24.5% SL** must be applied at the labeled rate in the “**How to Apply**” section. Repeat applications of **Sharda Glufosinate 24.5% SL** or tank mixes of **Sharda Glufosinate 24.5% SL** plus one or more appropriate residual herbicide(s) listed on this label will be needed to control weeds emerging from underground parts or seeds.

How to Mix

Sharda Glufosinate 24.5% SL must be mixed with water to make finished spray solution as follows:

- Fill the spray tank with the required amount of water.
- Add the proper amount of product, then mix thoroughly.

How to Apply

Spot or Directed Applications

This product may be used as a spot or directed spray application using 0.4 to 0.75 fl. oz./gal. of water (0.007 - 0.014 lb. a.i./gal. of water) of water depending upon the weed and stage of growth as shown in the following sections. Spray undesirable vegetation foliage on a spray-to-wet basis. DO NOT apply beyond runoff. Ensure uniform and complete coverage. Use a coarse spray. Backpack, pump-up, and hydraulic sprayers may be used. Thoroughly clean the sprayer following use.

Broadcast or Boom Applications

Apply 12 – 38 fl. oz./A (0.22 – 0.69 lb. a.i./A) depending upon the weed and stage of growth as shown in the following sections. Use a minimum of 40 gallons of water per acre with a minimum of 30 PSI spray pressure.

Aerial Applications

Apply as a foliar treatment using a minimum of 5 gallons of water per acre to ensure thorough coverage. Applications under conditions which cause drift of this product will result in damage to any vegetation contacted. Drift control additives may be used. If a drift control additive is used, observe and follow all directions and precautions as specified on the additive label.

Tank Mix Directions for Non-crop Uses

Sharda Glufosinate 24.5% SL is compatible in tank mixes with many other herbicides including non-selective herbicides including glyphosate. It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Tank mix applications of **Sharda Glufosinate 24.5% SL** plus the following herbicides are advised for broad-spectrum post-emergence and pre-emergence weed control:

Isopropylamine salt of imazapyr	Butoxydim	Norflurazon
Prodiamine	Isoxaben	Diglycolamine salt of 3,6-dichloro-o-anisic Acid
Oryzalin	Pendimethalin	Oxadiazon

A compatibility test must be conducted with any potential tank mix partner with **Sharda Glufosinate 24.5% SL**, except with any one of those listed above. Using a clear glass quart jar, conduct the test as described below:

1. Fill the jar three-quarters full with water.
2. Add the appropriate amount of herbicide in the following order: (a) dry flowable, (b) wettable powder, (c) aqueous suspensions, (d) flowables, (e) liquids and (f) solutions and emulsifiable or liquid concentrates. Shake or gently stir jar after each addition to thoroughly mix.
3. After adding all ingredients, let the mixture stand for 15 minutes and then look for separation, large flakes, precipitates, gels, and heavy oily film on the jar or other signs of incompatibility.
4. If the compatibility test shows signs of incompatibility, DO NOT tank mix the product tested with **Sharda Glufosinate 24.5% SL**.

For the Following Weeds Controlled by Sharda Glufosinate 24.5% SL Apply:

Spot Application:

Apply 0.75 fl. oz./gal. of water (0.014 lb. a.i./gal. of water) when the weed height or diameter is less than 6 inches.

Apply 1.25 fl. oz./ gal. of water (0.023 lb. a.i./gal. of water) when the weed height or diameter is 6 inches or greater.

Broadcast Application:

Apply 40 fl. oz./A (0.73 lb. a.i./A) when the weed height or diameter is less than 6 inches.

Apply 56 fl. oz./A (1.02 lb. a.i./A) when the weed height or diameter is 6 inches or greater.

Broadleaf Weeds		
Chickweed	Jimsonweed	Marestail
Clover	Kochia	Purslane

Common Cocklebur	London rocket	Shepherd's purse
Filaree	Malva (little mallow)	Smartweed
Grasses and Sedges		
Barnyardgrass	Green Foxtail	Stinkgrass
Cupgrass	Johnsongrass (rhizome)	Windgrass
Fall Panicum	Lovegrass	Yellow Foxtail
Giant Foxtail	Shattercane	
Goosegrass	Smallflower Alexandergrass (Signalgrass)	

For the Following Weeds Controlled by Sharda Glufosinate 24.5% SL Apply:**Spot Application:**

Apply 1.25 fl. oz./gal. of water (0.023 lb. a.i./gal. of water) when the weed height or diameter is less than 6 inches.

Apply 1.75 fl. oz./gal. of water (0.032 lb. a.i./gal. of water) when the weed height or diameter is 6 inches or greater.

Broadcast Application:

Apply 56 fl. oz./A (1.02 lbs. a.i./A) when the weed height or diameter is less than inches tall. Apply 80 fl. oz./A (1.46 lbs. a.i./A) when the weed height or diameter is 8 inches or greater.

Broadleaf Weeds		
Annual sowthistle	Lambsquarters	Tansy mustard
Bindweed	Leafy spurge	Velvetleaf
Buffalobur	Mugwort	Vervain
Burdock	Musk thistle	Virginia copperleaf
Canada thistle	Nettle	White heath aster
Curly dock	Nightshade	Wild buckwheat
Dandelion	Pennycress	Wild mustard
Dogbane (hemp)	Pigweed, redroot	Wild onion
Field growwell	Plantain	Wild rose
Fleabane	Prickly lettuce	Wild turnip
Goldenrod	Ragweed	Wood sorrel
Horsetail	Russian thistle	Yellow rocket
Grasses and Sedges		
Annual bluegrass	Downy bromegrass	Ryegrass
Bahiagrass	Fescue	Sandbur
Barley	Guineagrass	Smooth bromegrass
Bermudagrass	Kentucky bluegrass	Torpedograss
Carpetgrass	Nutsedge	Vaseygrass
Crabgrass	Paragrass	Wheat
Dallisgrass	Quackgrass	Wild oat

Additional Use Directions

1. Use higher rates within the directed rate range for plant sizes listed when vegetation cover is dense or when weeds are growing under stressed conditions including drought or when average temperatures are below 50°F.
2. The addition of 8.5 to 17 pounds of ammonium sulfate (spray grade) per 100 gallons of water (1 to 2% by weight) or 2 to 4 pounds of ammonium sulfate per acre may improve the level of weed control.

Use on Woody Species (Not For Use in California)

When applied as labeled, **Sharda Glufosinate 24.5% SL** will provide control, partial control, or suppression of certain perennial woody weed species. Apply 64 – 192 fl. oz./A (1.19 – 3.51 lbs. a.i./A). Use the higher specified rates per acre of this product when conditions are not optimum for spray penetration, including when vegetation growth is heavy or dense. Lower specified rates may be used when the target species is a conifer and when vegetation growth conditions allow for uniform spray coverage.

Blackberry	<i>Rubus</i> spp.
Deer brush	<i>Ceanothus integerrimus</i>
Douglas fir	<i>Pseudotsuga menziesii</i>
Gallberry	<i>Ilex</i> spp.
Hazel	<i>Corylus</i> spp.
Honeysuckle	<i>Lonicera</i> spp.
Huckleberry	<i>Gaylussacia</i> spp.
Maple	<i>Acer</i> spp.
Multiflora rose	<i>Rosa multiflora</i>
Oak	<i>Quercus</i> spp.
Pine	<i>Pinus</i> spp.
Poison ivy	<i>Toxicodendron radicans</i>
Poison oak	<i>Toxicodendron toxicarium</i>

Roundleaf greenbrier	<i>Smilax rotundifolia</i>
Salmonberry	<i>Rubus spectabilis</i>
Sweet gum	<i>Liquidambar styraciflua</i>
Sumac	<i>Rhus</i> spp.
Thimbleberry	<i>Rubus parviflorus</i>
Trumpetcreeper	<i>Campsis radicans</i>
Vine maple	<i>Acer circinatum</i>
Western red cedar	<i>Thuja plicata</i>

Where to Apply

Trimming and Edging

Sharda Glufosinate 24.5% SL may be used for trimming and edging landscape areas including around individual trees and shrubs, landscape beds, foundations, fences, driveways, paths, and parking areas; also on golf courses along cart paths, around sign and light posts, and around sand traps. For control of weeds emerging from seed, the use of **Sharda Glufosinate 24.5% SL** in a tank mix with pre-emergence herbicides is advised. If spraying in areas adjacent to desirable plants, use a shield made of cardboard, plywood, or sheet metal while spraying to help prevent spray from contacting foliage of desirable plants. Refer to the How to Apply section of this labeling for appropriate application rates to control specific weeds.

Farmsteads, Recreational and Public Areas

When applied as a spot or directed spray application, this product controls annual and perennial weeds listed on this label in areas including areas around farmstead building foundations, shelter belts, along fences, airports, commercial plants, storage and lumber yards, educational facilities, fence lines, ditch banks, dry ditches, roadsides, schools, parking lots, tank farms, pumping stations, and parks. Refer to the How to Apply section of this labeling for appropriate application rates to control specific weeds.

Dormant Bermudagrass (Not for use on Residential Turf/Turfgrass/Lawns)

Sharda Glufosinate 24.5% SL may be used to control winter annual weeds in well-established ornamental dormant hybrid or common Bermudagrass. Apply only when the weather is cool and Bermudagrass is dormant and prior to spring green-up or severe turfgrass injury or delayed green-up may occur. For best results, apply **Sharda Glufosinate 24.5% SL** at a rate of 40 – 80 fl. oz./A (0.73 – 1.46 lbs. a.i./A) after most weeds have germinated and are in an early growth stage. Refer to the Weeds Controlled by **Sharda Glufosinate 24.5% SL** section of this label for selecting specified rates. Applications of **Sharda Glufosinate 24.5% SL** may also be used to suppress or control undesirable biennial or perennial weeds. Avoid high volume and spot applications where spray volume exceeds 80 gallons per acre or injury or delayed green-up may occur.

Ornamentals and Christmas Trees

When applied as specified by this label, this product may be used for the control of undesirable vegetation in site preparation prior to planting, around and within shade and greenhouses, and as a directed spray around containers and field-grown established ornamentals and Christmas trees.

DO NOT apply directly to or allow drift to contact desirable green tissue or green, thin, or uncalloused bark of desirable vegetation or injury may result.

DO NOT apply **Sharda Glufosinate 24.5% SL** as an over-the-top broadcast spray in ornamentals and shade or Christmas trees.

Directed Spray Application:

Sharda Glufosinate 24.5% SL may be applied as a directed spray to control in-row weeds in field-grown woody plants. Refer to the How to Apply section of this labeling for appropriate application rate to control specific weeds. This product may also be used between and around containers and in site preparation for new planting.

Site Preparation Application:

This product may be used for pre-plant site preparation for the control of annual and perennial weeds listed on this label, in ornamental and Christmas tree plantings. Ornamentals and Christmas trees may be planted into the treated area after the restricted entry interval (REI) of 12 hours has elapsed. Refer to the How to Apply section of this labeling for appropriate application rates to control specific weeds.

Greenhouse and Shade House Applications:

Sharda Glufosinate 24.5% SL may be used to control weeds in greenhouses and shade-houses. Air circulation fans must be turned off during application. Apply **Sharda Glufosinate 24.5% SL** as a directed spray, using large droplet and low-pressure type nozzles. Avoid drift and direct contact with desirable vegetation. **DO NOT** use in greenhouses or shade houses containing edible crops.

Use Restrictions in Non-Crop Use

- Do not apply this product through any type of irrigation system.
- Do not apply directly to or allow drift to contact desirable green tissue or green, thin, or uncalloused bark of desirable vegetation.
- Do not allow grazing of vegetation treated with this product.
- Do not exceed maximum use rate of 80 fl. oz./A (1.46 lbs. a.i./A) for broadcast or boom applications.
- Do not make more than 3 applications per year for broadcast or boom applications but no more than 2 applications per year on Dormant bermudagrass.

- Do not exceed maximum use rate of 1.75 fl. oz./gal. of water (0.032 lb. a.i./gal. of water) for spot or directed applications and do not apply beyond runoff.
- Do not apply more than 240 fl. oz. (4.50 lbs. a.i./A) of this product per acre per year to non-crop areas except on Dormant Bermudagrass do not apply more than 80 fl. oz. (1.46 lbs. a.i./A) per acre per year.
- Applications must be made at least 14 days apart in non-crop areas.

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 must not exceed 125°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 [Less Than 5 Gallons]: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. 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 mix tank or store rinsate for later use and 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.

CONTAINER HANDLING [Greater Than 5 Gallons]: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. 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 1/4 full with water. Replace 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 reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incineration.

CONTAINER HANDLING [For Bulk and Mini-Bulk Containers]: Refillable container. Refill this container with pesticide only. Do not use 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 person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by State and local authorities.

SEED DISPOSAL: To dispose of out of date or otherwise unmarketable seed from plants which have been treated with this product, 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.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Sharda USA LLC or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Sharda USA LLC and Seller harmless for any claims relating to such factors.

Sharda USA LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or Sharda USA LLC and Buyer and User assume the risk of any such use. To the extent consistent with applicable law, Sharda USA LLC, MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, neither Sharda USA LLC nor Seller shall be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SHARDA USA LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SHARDA USA LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

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