

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

May 22, 2017

Karen Cain Senior Regulatory Manager, Herbicides Bayer CropScience, LP PO Box 12014 RTP, NC 27709

Subject: PRIA Label Amendment – Increasing application rates for soybean, canola, field

corn, and sweet corn; minor label updates; incorporating 6(a)2 data on pistachio

Product Name: Liberty 280 SL Herbicide EPA Registration Number: 264-829 Application Date: 07/05/2016 Decision Number: 519449

Dear Ms. Cain:

The application referred to above, submitted under the Federal Insecticide, Fungicide and Rodenticide Act, as amended is acceptable under FIFRA sec 3 (c)(5). You must submit and/or cite all data required for registration/registration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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.

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Your release for shipment of the product 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, please contact Lisa Pahel by phone at (703) 347-0459, or via email at pahel.lisa@epa.gov.

Sincerely,

Rachel C. Holloman, Chief Fungicide and Herbicide Branch

Rachel C. Holloman

Registration Division

Office of Pesticide Programs

Enclosure: Human Health Risk Assessment/Review of 6(a)2 data on Pistachio, dated 04/04/2017, DP#435051 & DP#436846; Occupational and Residential Exposure Assessment dated 04/03/2017, DP#436710; Residue Chemistry Review dated 04/03/2017, DP#437605

LIBERTY® 280 SL HERBICIDE

LIBERTY 280 SL HERBICIDE is a non-selective herbicide that provides control of a broad spectrum of broadleaf and grassy weeds.

LIBERTY 280 SL HERBICIDE is registered for use:

- as a burndown treatment prior to planting or prior to emergence of canola, corn, sweet corn, cotton, soybean, and sugar beet.
- post emergence weed control herbicide to be applied on LibertyLink (LL) crops including LL canola, LL soybeans, LL corn, LL sweet corn, and LL cotton
- post emergence weed control herbicide to be applied on cotton with a hooded sprayer only
- post emergence weed control herbicide to be applied on listed trees, vine and berry crops
- post emergence weed control herbicide to be applied on olives
- as a vine desiccant in potatoes

ACTI	۷E	INGR	REDII	ENT:
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 Glufosinate-ammonium*
 24.5%**

 OTHER INGREDIENTS:
 75.5%

 TOTAL:
 100.0%

*CAS Number 77182-82-2

EPA Reg No. 264-829

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN WARNING AVISO

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

For <u>MEDICAL</u> And <u>TRANSPORTATION</u> Emergencies <u>ONLY</u> Call 24 Hours A Day 1-800-334-7577 For <u>PRODUCT USE</u> Information Call 1-866-99BAYER (1-866-992-2937)

Please refer to [back panel] [booklet] for additional precautionary statements and directions for use. (Note to reviewer: Location of additional precautionary statements and directions for use will vary between those listed, depending on container type/size.)

ACCEPTED

05/22/2017

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 2011 2002

264-829

^{**}Equivalent to 2.34 pounds of active ingredient per U.S. gallon.

FIRST AID

eye. • Get m	ve contact lenses, if present, after the first 5 minutes, then continue rinsing edical attention if irritation develops or persists.
	edical attention if irritation develops or persists.
- ·	
IF ON SKIN: • Take or	ff contaminated clothing.
Rinse s	skin immediately with plenty of water for 15-20 minutes.
Call a	poison control center or doctor for treatment advice.
IF SWALLOWED: • Call a p	poison control center or doctor immediately for treatment advice.
Have p	erson 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 to an unconscious person.

HOT LINE NUMBER: Have the product container or label with you when calling a poison control center or doctor, or when going for treatment. Call 1-800-334-7577 for emergency medical treatment information.

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. Additionally, call 1-800-334-7577 immediately for further information.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

Causes substantial but temporary eye injury. Harmful if absorbed through skin. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. 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 use.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below.

Applicators and other handlers must wear:

Long sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, or Viton[®] ≥14 mils; shoes and socks; protective eyewear (goggles, face shield or safety glasses).

All handlers must wear long-sleeve shirts, long pants, shoes, and socks.

Mixer/loaders supporting aerial applications to corn, canola, soybean, and cotton must use closed mixing/loading systems.

Applicators using ground boom equipment with open cabs to treat cotton must wear long-sleeve shirts, long pants, shoes, and socks plus chemical-resistant gloves.

Mixer/loaders supporting ground boom applications corn, canola, soybean, cotton, citrus fruit, pome fruit, stone fruit, and olives must wear long-sleeve shirts, long pants, shoes, and socks plus chemical-resistant gloves.

For spot treatments on olives, citrus, pome, and stone fruit with a mechanically pressurized handgun, applicators must wear long-sleeve shirts, long pants, shoes, and socks plus chemical-resistant gloves.

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.

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.

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

ENVIRONMENTAL HAZARDS

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

This pesticide is toxic to vascular plants and should be used strictly in accordance with the drift and run-off precautions on this label in order to minimize off-site exposures.

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

DIRECTIONS FOR USE

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

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

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

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

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry-interval (REI) of 12 hours, with the following exceptions:

- Canola scouting REI of 2 days
- Field corn and soybean scouting REI of 6 days
- Do not move irrigation pipe within 11 days of an application for any crop except sweet corn irrigation activities which has a 5 day REI.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls worn over short-sleeved shirt and short pants; chemical resistant gloves such as barrier laminate, butyl rubber >14 mils, nitrile rubber >14 mils, neoprene rubber >14 mils, polyvinyl chloride (PVC) >14 mils, or Viton® >14 mils; chemical resistant footwear plus socks; protective eyewear (goggles, face shield or safety glasses).

IMPORTANT CROP SAFETY INFORMATION READ BEFORE USING THIS PRODUCT

LIBERTY® 280 SL HERBICIDE may be applied as a **burndown treatment prior to planting or prior to emergence** of canola, corn, sweet corn, cotton, olive, soybean, and sugar beet.

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

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

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

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

HERBICIDE with parts of trees, berries or vines other than mature brown bark can result in serious damage.

PRODUCT INFORMATION

LIBERTY 280 SL HERBICIDE is a water-soluble non-selective herbicide for application as a foliar spray for the control of a broad spectrum of emerged broadleaf and grassy weeds.

LIBERTY 280 SL HERBICIDE is registered for use:

- as a burndown treatment prior to planting or prior to emergence of canola, corn, sweet corn, cotton, olive, soybean, and sugar beet.
- post emergence weed control herbicide to be applied on LL crops including LL canola, LL soybeans, LL corn, LL sweet corn and LL cotton.
- post emergence weed control herbicide to be applied on cotton with a hooded sprayer only.
- post emergence weed control herbicide to be applied on listed trees, vine and berry crops.
- as a vine desiccant in potatoes.

LIBERTY 280 SL HERBICIDE is only foliar-active with little or no activity in soil. Weeds that emerge after application will not be controlled.

LIBERTY 280 SL HERBICIDE:

- apply to actively growing small weeds as specified in the Weed Control for Row Crops section.
- LIBERTY 280 SL HERBICIDE is a contact herbicide and requires uniform thorough spray coverage.
- Warm temperatures, high humidity, and bright sunlight improve the performance of Liberty 280 SL Herbicide.
- Necrosis of leaves and young shoots occur within 2 to 4 days after application under good growing conditions.
- Liberty 280 SL Herbicide is rainfast four (4) hours after application to most weed species; therefore, rainfall within four (4) hours may necessitate retreatment or may result in reduced weed control.
- To avoid the possibility of reduced lambsquarters and velvetleaf control, applications should be made between dawn and 2 hours before sunset.
- Weed control may be reduced if application is made when heavy dew, fog, and mist/rain are present; or when weeds are
 under stress due to environmental conditions such as drought, cool temperatures, or extended periods of cloudiness.
- To maximize weed control, do not cultivate from 5 days before an application to 7 days after an application.
- Consult your local Cooperative Extension Service or Bayer CropScience Representative for guidelines on the optimum application timing for LIBERTY 280 SL HERBICIDE in your region.

ROTATIONAL CROP RESTRICTIONS

Rotational crop planting intervals following application of LIBERTY 280 SL HERBICIDE with the exception of a potato vine desiccation* are listed below. Failure to comply with these restrictions may result in illegal residues in rotated crops.

Rotational Crop	Plant Back Interval (Minimum Rotational Crop Planting Interval from Last Application)	
Canola, Corn, Sweet Corn, Soybean, Cotton, and Sugar beets	May be planted at any time	
Root and Tuber Vegetables, Leafy Vegetables, Brassica Leafy Vegetables and Small Grains (barley, buckwheat, oats, rye, teosinte, triticale, and wheat).	70 Days	
Other Crops	180 Days	
*See Application Directions for Potato Vine Desiccation for Rotational Crop Restrictions		

RESISTANCE MANAGEMENT

LIBERTY 280 SL HERBICIDE is a Group 10 Herbicide, i.e., an glutamine synthetase inhibitor. A given weed population may contain or develop resistance to a herbicide after repeated use. Appropriate resistance-management strategies should be followed to mitigate or delay resistance. The following Integrated Weed Management Techniques are effective in reducing problems with herbicide resistant weed biotypes. It is best to use multiple practices to manage or delay resistance, as no single strategy is likely to be totally effective.

- Rotate crops. Crop rotation diversifies weed management.
- Rotate herbicide-tolerant traits. Alternate herbicide-tolerant (HT) traits and/or use HT trait stacks for more efficient rotation.
- Use multiple herbicide sites of action. Use tankmix partners and multiple SOAs during both the growing season and from year to year to reduce the selection pressure of a single SOA.
- Know your weeds, know your fields. Closely monitor problematic areas with difficult-to-control weeds or dense weed populations.
- Start with clean fields. Effective tillage or the use of a burndown herbicide program can control emerged weeds prior to planting.
- Stay clean use residual herbicides. Regardless of tillage system, pre-emergence or early post-emergence soilapplied residual herbicides should be used when possible.
- Apply herbicides correctly. Ensure proper application, including timing, full use-rates and appropriate spray volumes.
- Control weed escapes. Consider spot herbicide applications, row wicking, cultivation or hand removal of weeds or other techniques to stop weed seed production and improve weed management.
- Zero tolerance reduce the seed bank. Do not allow surviving weeds to set seed, which will help decrease weed populations from year to year and prevent major weed shifts.
- Clean equipment. Prevent the spread of herbicide-resistant weeds and their seeds.

Contact your local extension specialist, certified crop advisory and /or Bayer CropScience representative for additional resistance management or IPM recommendation. Also for more information on Weed Resistance Management, visit the Herbicide Resistance Action Committee (HRAC) on the web at http://www.hracglobal.com.

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.

		22 fl oz/A	29 - 43 fl oz/A
Common Name	Scientific Name	C = Control NR = Not Recommended S = Suppression	C = Control NR = Not Recommended S = Suppression
Amaranth, Palmer	Amaranthus palmeri	NR	С
Anoda, spurred	Anoda cristata	С	С
Beggarweed, Florida	Desmodium tortuosum	С	С
Black medic	Medicago lupulina L.	С	С
Blueweed, Texas	Helianthus ciliaris DC.	С	С
Buckwheat, wild	Polygonum convolvulus	С	С
Buffalobur	Solanum cornutum	С	С
Burcucumber	Sicyos angulatus	С	С
Canola, volunteer1	Brassica spp.	C ¹	C ¹
Catchweed bedstraw (cleavers)	Galium aparine L.	С	С
Carpetweed	Mollugo verticillata	С	С
Chickweed, common	Stellaria media	С	С
Cocklebur, common	Xanthium strumarium	С	С
Copperleaf, hophornbeam	Acalypha ostryaefolia	С	С
Cotton, volunteer ¹	Gossypium sp.	C ¹	C ¹
Croton, tropic	Croton glandulosus	С	С
Croton, woolly	Croton capitatus	С	С
Eclipta	Eclipta alba	С	С
Devil's claw	Proboscidea Louisiana	С	С
Fleabane, annual	Erigeron annuus	С	С
Galinsoga, hairy	Galinsoga ciliate	С	С
Galinsoga, small flower	Galinsoga parviflora	С	С
Groundcherry, cutleaf	Physalis angulate	С	С

Common Name Scientific Name S = Suppression S = Suppression Cerranium_culsed Geranium_dissectrum L. C	Table 1. Broadleaf Weeds	s Controlled (including Glyphosate-, Triazir	azine-, PPO-, ALS-, HPPD-, and Auxin-Resistant Biotypes)		
Common Name Scientific Name S = Suppression S = Suppressi			22 fl oz/A	29 - 43 fl oz/A	
Geranium cutleaf Garanium dissectum L. C C C C Horsenettle, Carolina² Salarum carolinense C²	Common Name	Scientific Name	NR = Not Recommended	NR = Not Recommended	
Horsenettle, Carolina ² Johannesse Datura stramonium C C C Knotweed Polygonum spec. C C C Lambsquarters, common Chenopodium album C C C C Mallow, Common Malva spec. C C C Mallow, Venice Hibiscus trionum C C C C Mallow, Venice Hibiscus trionum C C C C Mallow, Interest Polygonum Spec. C C C Marestali ² C Conyza Canadensis S C C Marestali ² C Conyza Canadensis S C C Marestali ² C Conyza Canadensis S C C Morningglory, Interest I pomoea hederacea var. intergriuscula C C C C Morningglory, interest I pomoea hederacea C C C C Morningglory, sharppod I pomoea hederacea C C C C Morningglory, sharppod I pomoea cordatoritolba C C C C Morningglory, sharppod I pomoea cordatoritolba C C C C Morningglory, sharppod I pomoea cordatoritolba C C C C Morningglory, sharppod I pomoea purppurea C C C C Mustard, wild Sinapis anventsis C C C C Mustard, wild Sinapis anventsis C C C C Mustard, wild Sinapis anventsis C C C C Mustard, hairy C C C C Mustard, hairy C C C C Mustard, hairy C C C C Ponnycress Thiaspi anvense C C C C Pennycress Thiaspi anvense C C C C Pennycress Thiaspi anvense C C C C Pigweed, prostrate A maranthus pitroldus C C C C Pigweed, prostrate A maranthus pitroldus C C C C Pigweed, prostrate A maranthus pitroldus C C C C Pigweed, prostrate A maranthus pitroldus C C C C Pigweed, prostrate A maranthus pitroldus C C C C Pigweed, prostrate A maranthus pitroldus C C C C Pigweed, prostrate A maranthus pitroldus C C C C Pigweed, prostrate A maranthus pitroldus C C C C Pigweed, prostrate C C C C C C C C Septency Polytonum C C C C C C C C C C C C C C C C C C C	Geranium, cutleaf	Geranium dissectrum L.		1	
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Velvetleaf Abutilon theophrasti C C		I .			
ANTONIO DE LA CONTRACTOR DEL LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACT	Waterhemp, common	Amaranthus rudis	NR NR	C	
Waterhemp, tall Amaranthus tuberculatos NR C					

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

May require sequential applications for control.

For optimum control apply Liberty 280SL on 6" marestail

		22 fl oz/A	29 - 43 fl oz/A
Common Name	Scientific Name	C = Control NR = Not Recommended S = Suppression	C = Control NR = Not Recommended S = Suppression
Barley, volunteer ³		C ³	C ³
Barnyardgrass	Echinochloa spec.	С	С
Bluegrass, annual	Poa annua L.	С	С
Corn, volunteer ¹	Zea mays L.	C ¹	C ¹
Crabgrass, large ²	Digitaria sanguinalis	C^2	C ²
Crabgrass, smooth ²	Digitaria ischaemum	C ²	C ²
Cupgrass, woolly	Eriochloa villosa	С	С
Foxtail, bristly	Setaria verticillata	С	С
Foxtail, giant	Setaria faberi	С	С
Foxtail, green	Setaria viridis	С	С
Foxtail, robust purple	Setaria viridis	С	С
Foxtail, yellow ²	Pennisetum glaucum	C ²	C ²
Goosegrass ³	Eleusine indica	C ³	C ³
Johnsongrass, seedling	Sorghum halepense	С	С
Junglerice	Echinochloa colonum	С	С
Millet, wild-proso	Panicum miliaceum L.	С	С
Millet, proso volunteer	Milium vernale	С	С
Oat, wild ²	Avena fatua	С	С
Panicum, fall	Panicum dichotomiflorum	С	С
Panicum, Texas	Panicum texanum	С	С
Rice, red	Oryza sativa L.	С	С
Rice, volunteer ¹	Oryza sativa	C ¹	C ¹
Sandbur, field ²	Cenchrus pauciflorus	S ²	C ²
Shattercane	Sorghum vulgare PERS.	С	С
Signalgrass, broadleaf	Brachiaria platyphylla	С	С
Sprangletop	Leptochloa spec.	С	С
Sorghum, volunteer	Sorghum sp.	С	С
Stinkgrass	Eragrostis cilianensis	С	С
Wheat, volunteer ²	Triticum spec.	C ²	C ²
Witchgrass	Panicum virgatum L.	С	С

Volunteer LibertyLink crops from the previous season will not be controlled. A timely cultivation 7 to 10 days after an application and/or retreatment 10-21 days after the first application is recommended for controlling dense clumps of volunteer corn or rice.
 For best control of yellow foxtail, field sandbur, crabgrass, and wild oats, treat prior to tiller initiation.
 A sequential application may be necessary for control.

Table 3. Biennial and Perennial Weeds Controlled (including Glyphosate-, Triazine-, PPO-, ALS-, HPPD-, and Auxin-Resistant Biotypes)

For control of the biennial and perennial weeds listed below, tank mix partners or sequential applications of LIBERTY

280 SL HERBICIDE are recommended by crop (see crop sections)

		29 - 43 fl oz/A
Common Name	Ocioniiii Nome	C = Control NR = Not Recommended
Common Name	Scientific Name	S = Suppression
Alfalfa	Medicago sativa L.	C C
Bermudagrass	Cynodon dactylon	C
Bindweed, field	Convolvulus arvensis L.	C
Bindweed, hedge	Calystegia sepium	C
Bluegrass, Kentucky	Poa pratensis L.	Ç
Blueweed, Texas	Helianthus ciliaris DC.	C
Bromegrass, smooth	Bromus inermis	C
Burdock	Arctium sp.	C C
Bursage, woolyleaf	Ambrosia grayi	
Chickweed, Mouse-ear	Cerastium vulgatum L.	C C
Clover, red	Trifolium pretense L.	- C
Dandelion	Taraxacum officinale	_
Dock, smooth	Rumex spec.	S
Dogbane, hemp	Apocynum cannabinum	S
Goldenrod, gray	Solidago nemoralis	Č
Johnsongrass, rhizome	Sorghum halepense	S
Milkweed, common	Asclepias syriaca	S
Milkweed, honeyvine	Ampelamus albidus	S
Muhly, wirestem	Muhlenbergia frondosa	<u> </u>
Nightshade, sliverleaf	Solanum elaeagnifoium	S S
Nutsedge, purple	Cyperus rotundus	S
Nutsedge, yellow	Cyperus ferax	C C
Orchardgrass	Dactylis glomerata L.	G C
Poinsettia, wild	Euphorbia heterophylla L.	
Pokeweed	Phytolaccaceae	S C
Quackgrass	Agropyron repens	_
Sowthistle, perennial	Sonchus arvensis L.	С
Thistle, bull	Cirsium vulgare	S
Thistle, Canada	Cirsium arvense	C
Timothy	Phleum pretense L.	S
Wormwood, biennial	Artemisia biennis	C

APPLICATION AND MIXING PROCEDURES

Uniform, thorough spray coverage is important to achieve consistent weed control with Liberty 280SL Herbicide.

GROUND APPLICATION

- Apply early when weeds are small with directed rates as identified in the Rate Tables for each crop.
- Use nozzles and pressure that generate a MEDIUM to COARSE size spray droplet. NOTE: Weed control with very coarse, extremely coarse or ultra-coarse nozzles will not provide adequate coverage and will cause unsatisfactory weed control.
- Apply Liberty 280 SL Herbicide in a minimum of 15 gallons of water per acre. Increase to 20 gallons of water per acre if dense weed canopy exists.
- Apply at ground speed of less than 15 mph to attain adequate coverage.
- Apply when wind speeds are between 2 mph and 10 mph. DO NOT apply when winds are gusty, or when conditions will favor
 movement of spray particles off the desired spray target. See the Spray Drift Management section of this label for additional
 information on proper application of LIBERTY 280 SL HERBICIDE.

AERIAL APPLICATION

- Apply early when weeds are small with directed rates as identified in the Rate Tables.
- Use nozzles and pressure that generate a MEDIUM to COARSE size spray droplet. NOTE: Weed control with very coarse, extremely coarse or ultra-coarse nozzles will not provide adequate coverage and will cause unsatisfactory weed control.
- Apply Liberty 280 SL Herbicide in a minimum of 10 gallons of water per acre.
- See the Spray Drift Management section of this label for additional information on proper application of LIBERTY 280 SL HERBICIDE.

APPLICATION AND MIXING RESTRICTIONS

- DO NOT apply when winds are gusty, or when conditions will favor movement of spray particles off the desired spray target.
 See the Spray Drift Management section of this label for additional information on proper application of LIBERTY 280 SL HERBICIDE.
- Do not use flood jet nozzles, controlled droplet application equipment, or air-assisted spray equipment.

COMPATIBILITY TESTING

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

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

MIXING INSTRUCTIONS

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

LIBERTY 280 SL HERBICIDE is formulated to mix readily in water. Prior to adding LIBERTY 280 SL HERBICIDE 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*). 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.

MIXING INSTRUCTIONS FOR LIBERTY 280 SL HERBICIDE

- 1. Start with properly calibrated and clean equipment.
- 2. Fill the spray tank half full with water.
- 3. Start agitation.
- 4. 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.
- 5. Add ammonium sulfate (AMS) to the spray tank if needed.
- 6. If mixing with a liquid tank mix partner, add the liquid mix partner next.
- 7. Complete filling the spray tank with water before adding Liberty, as foaming may occur.
- 8. Add LIBERTY 280 SL HERBICIDE when tank is full and continue agitation.
- 9. If foaming occurs, use a silicone-based antifoam agent.

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

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

CLEANING INSTRUCTIONS

PRIOR TO LIBERTY 280 SL HERBICIDE USE

Before using LIBERTY 280 SL HERBICIDE, thoroughly clean bulk storage tank, refillable tank, nurse tanks, spray tank, lines, and filter particularly if a herbicide with the potential to injure crops was previously used. Equipment should be thoroughly rinsed using a commercial tank cleaner and as instructed on the prior herbicide label.

AFTER LIBERTY 280 SL HERBICIDE USE

After using LIBERTY 280 SL HERBICIDE, triple rinse the spray equipment and clean with a commercial tank cleaner before using the equipment for a new application. . Make sure any rinsate or foam is thoroughly removed from spray tank and boom. Rinsate may be disposed following the pesticide disposal directions on this label.

SPRAY DRIFT MANAGEMENT

Spray Drift Restrictions

Spray drift may result in injury to non-target crops or vegetation. To avoid spray drift, do not apply when wind speed is greater than 10 MPH or during periods of temperature inversions. Do not apply when weather conditions, wind speed, or wind direction may cause spray drift to non-target areas. AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.

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

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

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

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

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

Where states have more stringent regulations, they should be observed. The applicator must be familiar with and take into account the information covered in the *Aerial Drift Reduction Advisory*.

AERIAL DRIFT REDUCTION ADVISORY

Information on Droplet Size: The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see *Wind, Temperature and Humidity*, and *Temperature Inversions* below). AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.

Controlling Droplet Size:

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

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

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

Temperature and Humidity: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry. Avoid spraying during conditions of low humidity and/or high temperatures.

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

APPLICATION DIRECTIONS FOR BURNDOWN USE

LIBERTY 280 SL HERBICIDE may be applied as a **burndown treatment prior to planting or prior to emergence** of canola, corn, sweet corn, cotton, soybean, sugar beet, LL canola, LL corn, LL sweet corn, LL soybean, and LL sugar beet.

	 Apply to small and actively growing weeds, targeting less than 3 inch weeds in height. For additional information on weed heights refer to the Weed Control for Row Crops section.
	 For Best results, warm temperatures, high humidity, and bright sunlight improve the performance of Liberty 280 SL Herbicide.
Application Timing	 Weed control may be reduced if application is made when heavy dew, fog, and mist/rain are present; or when weeds are under stress due to environmental conditions such as drought, cool temperatures, or extended periods of cloudiness.
	 To avoid the possibility of reduced lambsquarters, Palmer amaranth and velvetleaf control, applications should be made between dawn and 2 hours before sunset.
Application Use Rate	 Apply 29 to 43 fl oz/A depending on crop, weed species and intention of post application use. Please see application charts below.
	 Ammonium sulfate (AMS) can be used at 1.5 lb/A to 3 lb/A. Rates are dependent on tankmix partners, environmental conditions, temperatures and potential for leaf burn.
Adjuvant	 AMS has shown to improve weed control of difficult-to-control weeds, like velvetleaf and lambsquarters, under difficult environmental conditions (low relative humidity) or hard water.
	Anti-foam agent is recommended.
Surfactants/Oils	The use of surfactants may be included. Please refer to the surfactant label for more detailed information.
	15 GPA minimum.
Spray Volume	If dense canopy, large weeds or unfavorable growing conditions are present, increase water volume to 20 GPA.
Nozzle Spray Quality	 Medium to Coarse nozzles. Liberty is a contact herbicide and requires proper nozzles with uniform thorough spray coverage to achieve optimum weed control.
	See nozzle section for more detailed information.
Rainfast	4 hours.

Table 4. APPLICATION DIRECTIONS FOR CONVENTIONAL AND NON LL CROPS

Crop	Burndown	In-Season Applications	Per Year
Canola, Soybean, Sweet Corn,	29 - 43 fl oz/A	None	43 fl oz/A
Sugar Beet	29 – 36 fl oz/A	None	36 fl oz/A
Cotton Use Pattern 1	29 fl oz/A	2 applications at 29 fl oz/A*	87 fl oz/A
Cotton Use Pattern 2	30 - 43 fl oz/A	1 application at 29 fl oz/A*	72 fl oz/A

^{*} post application in non LL cotton can ONLY be applied with a hooded sprayer. See *Application Directions for Cotton* for more information

Table 5. APPLICATION DIRECTIONS FOR LL CROPS

	Burndown	In-Season Applications (LibertyLink® varieties only)	Per Year
LL Soybean, LL Corn	29 - 43 fl oz/A	Up to 2 applications at 29 - 43 fl oz/A	87 fl oz/A
LL Canola	29 - 43 fl oz/A	Up to 2 applications at 29 fl oz/A	87 fl oz/A
LL Cotton Use Pattern 1	29 fl oz/A	2 applications at 29 fl oz/A	87 fl oz/A
LL Cotton Use Pattern 2	30 - 43 fl oz/A	1 application at 29 fl oz/A	72 fl oz/A
LL Sugar beet	29 - 36 fl oz/A	1 application at 29 fl oz/A	60 fl oz/A

APPLICATION DIRECTIONS FOR USE ON LIBERTYLINK SUGAR BEETS

Apply LIBERTY 280 SL HERBICIDE only to sugar beets labeled as LibertyLink. Liberty 280 SL Herbicide is a contact herbicide and requires uniform, thorough spray coverage to achieve optimum weed control.

APPLICATION DIRECTIONS

ALL LICATION DIRECTIONS	
	Apply to small and actively growing weeds, targeting less than 3 inch weeds in height. For additional information on weed heights refer to the Weed Control for Row Crops section.
	 For Best results, warm temperatures, high humidity, and bright sunlight improve the performance of LIBERTY 280 SL HERBICIDE.
Application Timing	 Weed control may be reduced if application is made when heavy dew, fog, and mist/rain are present; or when weeds are under stress due to environmental conditions such as drought, cool temperatures, or extended periods of cloudiness.
	 To avoid the possibility of reduced lambsquarters, Palmer amaranth and velvetleaf control, applications should be made between dawn and 2 hours before sunset.
	Apply 29 fl oz/A depending on weed species, size and density per weed chart.
Application Use Rate	If required a second application of 29 fl oz/A can be applied.
	Second application should be made minimum 10 days after the first application.
Maximum Per Year	• 60 fl oz /A.
	 Ammonium sulfate (AMS) can be used at 1.5 lb/A to 3 lb/A. Rates are dependent on tankmix partners, environmental conditions, temperatures and potential for leaf burn.
Adjuvant	 AMS has shown to improve weed control of difficult-to-control weeds, like velvetleaf and lambsquarters, under difficult environmental conditions (low relative humidity) or hard water.
	Anti-foam agent is recommended.
Surfactants/Oils	The use of additional surfactants or crop oils may increase the risk of crop response. Please refer to the surfactant label for more detailed information.
Application window	Cotyledon up to 10 leaf stage of LL sugar beets.
	15 GPA minimum.
Spray Volume	 If dense canopy, large weeds or unfavorable growing conditions are present, increase water volume to 20 GPA.
Nozzle Spray Quality	 Medium to Coarse nozzles. Liberty is a contact herbicide and requires proper nozzles with uniform thorough spray coverage to achieve optimum weed control.
	See nozzle section for more detailed information.
Rainfast	4 hours.
Maximum Number of Applications per Year	Refer to Table 5

RESTRICTIONS TO THE DIRECTIONS FOR USE ON LL SUGAR BEETS

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

APPLICATION DIRECTIONS FOR USE ON LIBERTYLINK CANOLA

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

APPLICATION DIRECTIONS

	 Apply to small and actively growing weeds, targeting less than 3 inch weeds in height. For additional information on weed heights refer to the Weed Control for Row Crops section.
	 For Best results, warm temperatures, high humidity, and bright sunlight improve the performance of LIBERTY 280 SL HERBICIDE.
Application Timing	 Weed control may be reduced if application is made when heavy dew, fog, and mist/rain are present; or when weeds are under stress due to environmental conditions such as drought, cool temperatures, or extended periods of cloudiness.
	 To avoid the possibility of reduced lambsquarters, Palmer amaranth and velvetleaf control, applications should be made between dawn and 2 hours before sunset.
	 Apply 22 - 29 fl oz/A depending on weed species, size and density per weed chart.
Application Use Rate	 If required, a second application up to 29 fl oz/A can be applied.
	 Second application should be made minimum 7 days after the first application.
	 Apply 22 - 29 fl oz/A depending on weed species, size and density per weed chart Tank mix partners recommended to enhance grass control eg: Assure II, Poast, Select 2EC, Select Max.
Application Use Rate with Tank Mix Partners	 If required, a second application up to 29 fl oz/A can be applied. Second application should be made minimum 7 days after the first application. Tank mixes may aid in the performance of LIBERTY 280 SL HERBICIDE. Please refer to weed chart tables for a listing of weed species controlled at this rate. No additional surfactant is needed with any tank mix partner. The tank mix partner must be used in accordance with the label limitations and precautions.
	 No label dosage rates may be exceeded. LIBERTY 280 SL HERBICIDE cannot be mixed with any product containing a label prohibition against such mixing.
Maximum Per Year	• 87 fl oz / A
	 Ammonium sulfate (AMS) can be used at 1.5 lb/A to 3 lb/A. Rates are dependent on tankmix partners, environmental conditions, temperatures and potential for leaf burn.
Adjuvant	 AMS has shown to improve weed control of difficult-to-control weeds, like velvetleaf and lambsquarters, under difficult environmental conditions (low relative humidity) or hard water.
	Anti-foam agent is recommended to control the foaming.
Surfactants/Oils	 The use of additional surfactants or crop oils may increase the risk of crop response. Please refer to the surfactant label for more detailed information.
Analization window	Cotyledon up to early bolt stage of LL canola.
Application window	 Slight discoloration of the canola may be visible after application. This effect is temporary and will not influence crop growth, maturity, or yield.
O	15 GPA minimum.
Spray Volume	 If dense canopy, large weeds or unfavorable growing conditions are present, increase water volume to 20 GPA.
Nozzle Spray Quality	 Medium to Coarse nozzles. Liberty is a contact herbicide and requires proper nozzles with uniform thorough spray coverage to achieve optimum weed control.
Date () (See nozzle section for more detailed information.
Rainfast Maximum Number of	4 hours.
Applications per Year	Refer to Table 5

RESTRICTIONS TO THE DIRECTIONS FOR USE ON LL CANOLA

- **DO NOT** use on LL canola in the states of Alabama, Delaware, Georgia, Kentucky, Maryland, New Jersey, North Carolina, South Carolina, Tennessee, Virginia and West Virginia.
- DO NOT apply LIBERTY 280 SL HERBICIDE within 65 days of harvesting LL canola.
- **DO NOT** graze the treated crop or cut for hay.
- **DO NOT** apply LIBERTY 280 SL HERBICIDE if LL canola shows injury from prior herbicide applications or environmental stress (drought, excessive rainfall, etc.).
- DO NOT apply this product through any type of irrigation system.
- Refer to the "Rotational Crop Restrictions" section under the "Product Information" heading of this label for the appropriate rotational crop plant back intervals.

APPLICATION RATE AND TIMING FOR LL CANOLA SEED PROPAGATION

Up to three applications of Liberty 280 SL Herbicide at up to 29 fl oz/A per application may be made to LL 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 TO THE DIRECTIONS FOR LL CANOLA FOR SEED PROPAGATION

- DO NOT apply more than three applications of Liberty 280 SL Herbicide at up to 29 fl oz/A per application per year.
- **DO NOT** apply more than 87 fl oz/A of Liberty 280 SL Herbicide per year.
- DO NOT apply Liberty 280 SL Herbicide beyond the early bolting stage or within 65 days of harvesting canola seed.
- **DO NOT** use treated canola seed for food, feed or oil purposes.
- **DO NOT** apply Liberty 280 SL Herbicide if canola shows injury from prior herbicide applications or environmental stress (drought, excessive rainfall, etc.).
- DO NOT apply this product through any type of irrigation system.

APPLICATION DIRECTIONS FOR USE ON LIBERTYLINK SWEET CORN

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

APPLICATION DIRECTIONS

ALL EIGHTION DIRECTIONS	
	 Apply to small and actively growing weeds, targeting less than 3 inch weeds in height. For additional information on weed heights refer to the Weed Control for Row Crops section.
	 For Best results, warm temperatures, high humidity, and bright sunlight improve the performance of Liberty 280 SL Herbicide.
Application Timing	 Weed control may be reduced if application is made when heavy dew, fog, and mist/rain are present; or when weeds are under stress due to environmental conditions such as drought, cool temperatures, or extended periods of cloudiness.
	 To avoid the possibility of reduced lambsquarters, Palmer amaranth and velvetleaf control, applications should be made between dawn and 2 hours before sunset.
Application window • Emergence up to V6 stage of growth.	
	Apply 22 fl oz/A depending on weed species, size and density per weed chart.
Application Use Rate	If required , a second application of 22 fl oz/A can be applied.
	The second application should be made minimum 7 days after the first application.
	Apply 22 fl oz/A depending on weed species, size and density per weed chart.
	Recommended tank mix partners eg: Atrazine, Laudis, Caperno, DiFlexx.
	 If required, a second application of 22 fl oz/A can be applied.
	 The second application should be made minimum 7 days after the first application.
Application Use Rate with Tank	 Tank mixes may aid in the performance of LIBERTY 280 SL HERBICIDE. Please refer to weed chart tables for a listing of weed species controlled at this rate.
Mix Partners	 No additional surfactant is needed with any tank mix partner.
	 The tank mix partner must be used in accordance with the label limitations and
	precautions.No label dosage rates may be exceeded.
	 LIBERTY 280 SL HERBICIDE cannot be mixed with any product containing a label
	prohibition against such mixing.
Maximum Per Year	• 44 fl oz /A.
	 Ammonium sulfate (AMS) can be used at 1.5 lb/A to 3 lb/A. Rates are dependent on tankmix partners, environmental conditions, temperatures and potential for leaf burn.
Adjuvant	 AMS has shown to improve weed control of difficult-to-control weeds, like velvetleaf and lambsquarters, under difficult environmental conditions (low relative humidity) or hard water.
	Anti-foam agent is recommended.
Surfactants/Oils	 The use of additional surfactants or crop oils may increase the risk of crop response. Please refer to surfactant label for more detailed directions.
	15 GPA minimum.
Spray Volume	 If dense canopy, large weeds or unfavorable growing conditions are present, increase water volume to a minimum of 20 GPA.
	Medium to Coarse nozzles.
Nozzle Spray Quality	 Liberty is a contact herbicide and requires proper nozzles with uniform thorough spray coverage to achieve optimum weed control.
	See nozzle section for more detailed information.
Rainfast	4 hours.
Maximum Number of Applications per Year	Refer to Table 5

RESTRICTIONS TO THE DIRECTIONS FOR USE ON LL SWEET CORN

- DO NOT apply LIBERTY 280 SL HERBICIDE within 50 days of harvesting sweet corn ears and within 55 days of harvesting stover.
- If LIBERTY 280 SL HERBICIDE was used in a burndown application, no post emergence applications may be applied to the crop.
- DO NOT use nitrogen solutions as spray carriers.
- DO NOT apply LIBERTY 280 SL HERBICIDE if corn shows injury from prior herbicide applications or environmental stress (drought, excessive rainfall, etc.).
- **DO NOT** apply this product through any type of irrigation system.
- DO NOT apply more than 44 fl oz/A of LIBERTY 280 SL HERBICIDE on sweet corn per year.
- DO NOT apply more than two applications of LIBERTY 280 SL HERBICIDE to the sweet corn crop. Sequential applications should be at least 7 days apart.

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

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

APPLICATION DIRECTIONS FOR USE ON LIBERTYLINK FIELD CORN AND LIBERTYLINK SILAGE CORN

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

APPLICATION DIRECTIONS

AFFLICATION DIRECTIONS			
	 Apply to small and actively growing weeds, targeting less than 3 inch weeds in height. For additional information on weed heights refer to the Weed Control for Row Crops section 		
	 For Best results, warm temperatures, high humidity, and bright sunlight improve the performance of LIBERTY 280 SL HERBICIDE. 		
Application Timing	 Weed control may be reduced if application is made when heavy dew, fog, and mist/rain are present; or when weeds are under stress due to environmental conditions such as drought, cool temperatures, or extended periods of cloudiness. 		
	 To avoid the possibility of reduced lambsquarters, Palmer amaranth and velvetleaf control, applications should be made between dawn and 2 hours before sunset 		
Application window	Emergence up to V6 stage of growth.		
	Apply 29 - 43 fl oz/A depending on weed species, size and density per weed chart.		
Application Use Rate	 If required, a second application of 29 - 43 fl oz/A can be applied. 		
	 The second application should be made minimum 7 days after the first application. 		
	 Apply 22 - 43 oz/A of Liberty with labeled tank mix partners depending on weed species, size and density per weed chart. 		
	 Tank mix partners are recommended eg: Atrazine, Laudis, Caperno, DiFlexx. 		
	 If required, a second application of 29 to 43 fl oz/A can be applied. 		
Application Use Rate with Tank Mix Partners	 The second application should be made minimum 7 days after the first application. Tank mixes may aid in the performance of LIBERTY 280 SL HERBICIDE. Please refer to weed chart tables for a listing of weed species controlled at this rate. No additional surfactant is needed with any tank mix partner. 		
	The tank mix partner must be used in accordance with the label limitations and processitions.		
	precautions.No label dosage rates may be exceeded.		
	 LIBERTY 280 SL HERBICIDE cannot be mixed with any product containing a label prohibition against such mixing. 		
Maximum Per Year	• 87 fl oz /A		
Adjuvant	 Ammonium sulfate (AMS) can be used at 1.5 lb/A to 3 lb/A. Rates are dependent on tankmix partners, environmental conditions, temperatures and potential for leaf burn. 		

 AMS has shown to improve weed control of difficult-to-control weeds, like lambsquarters, under difficult environmental conditions (low relative hunwater. 	
	Anti-foam agent is recommended
Surfactants/Oils	The use of additional surfactants or crop oils may increase the risk of crop response. Please refer to surfactant label for more detailed directions
Spray Volume	 15 GPA minimum If dense canopy, large weeds or unfavorable growing conditions are present, increase water volume to a minimum of 20 GPA
Nozzle Spray Quality	 Medium to Coarse nozzles. Liberty is a contact herbicide and requires proper nozzles with uniform thorough spray coverage to achieve optimum weed control.
	See nozzle section for more detailed information.
Rainfast	4 hours
Maximum Number of Applications per Year	Refer to Table 5

APPLICATION DROP NOZZLE EQUIPMENT

Applications of LIBERTY 280 SL HERBICIDE on LL corn may be made with drop nozzles from emergence until LL corn is 36 inches tall. Avoid spraying into the whorl or leaf axils of the corn stalks.

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

- **DO NOT** apply LIBERTY 280 SL HERBICIDE within 60 days of harvesting corn forage and within 70 days of harvesting corn grain and corn fodder.
- DO NOT apply more than 87 fl oz/A of LIBERTY 280 SL HERBICIDE on LL corn per year.
- DO NOT use nitrogen solutions as spray carriers.
- **DO NOT** apply LIBERTY 280 SL HERBICIDE if corn shows injury from prior herbicide applications or environmental stress (drought, excessive rainfall, etc.).
- DO NOT apply this product through any type of irrigation system.
- Refer to the "*Rotational Crop Restrictions*" section under the "*Product Information*" heading of this label for the appropriate rotational crop plant back intervals.

APPLICATION DIRECTIONS FOR USE ON LIBERTYLINK COTTON

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

APPLICATION DIRECTIONS

	 Apply to small and actively growing weeds, targeting less than 3 inch weeds in height. For additional information on weed heights refer to the Weed Control for Row Crops section.
Application Timing	 For Best results, warm temperatures, high humidity, and bright sunlight improve the performance of Liberty 280 SL Herbicide.
Application Tilling	 Weed control may be reduced if application is made when heavy dew, fog, and mist/rain are present; or when weeds are under stress due to environmental conditions such as drought, cool temperatures, or extended periods of cloudiness.
	 To avoid the possibility of reduced lambsquarters, Palmer amaranth and velvetleaf control, applications should be made between dawn and 2 hours before sunset.
Application Use Rate Scenario 1	 Apply 32 - 43 fl oz/A in first application depending on weed species, size and density per weed chart.
(2 post applications)	If required a second application of 29 fl oz/A can be applied.
	 The second application should be made minimum10 days after the first application.
Maximum Per Year	• 72 fl oz /A.
	 Apply 29 fl oz/A per application depending on weed species, size and density per weed chart.
Application Use Rate Scenario 2 (3 post applications)	 If required a second application of 29 fl oz/A can be applied, followed by a third application of 29 fl oz/A.
	 The sequential applications should be made minimum 10 days up to 14 days after each other.
Maximum Per Year	• 87 fl oz /A.
	 Ammonium sulfate (AMS) can be used at 1.5 lb/A to 3 lb/A. Rates are dependent on tankmix partners, environmental conditions, temperatures and potential for leaf burn.
Adjuvants	 AMS has shown to improve weed control of difficult-to-control weeds, like velvetleaf and lambsquarters, under difficult environmental conditions (low relative humidity) or hard water. Anti-foam agent is recommended.
Surfactants/Oils	 The use of additional surfactants or crop oils may increase the risk of crop response. Please refer to surfactant label for more detailed directions.
Application window	Emergence up to early bloom.
	15 GPA minimum.
Spray Volume	 If dense canopy, large weeds or unfavorable growing conditions are present, increase water volume to a minimum of 20 GPA.
Nozzle Spray Quality	 Medium to Coarse nozzles. Liberty is a contact herbicide and requires proper nozzles with uniform thorough spray coverage to achieve optimum weed control.
	See nozzle section for more detailed information.
Rainfast	4 hours.
Maximum Number of Applications per Year	Refer to Table 5

APPLICATION RATE AND TIMING

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Use Pattern	1 st Application	2 nd Application	3 rd Application	Per Year
Option 1	32 - 43 fl oz/A	29 fl oz/A		72 fl oz/A
Option 2	29 fl oz/A	29 fl oz/A	29 fl oz/A	87 fl oz/A

RESTRICTIONS TO THE DIRECTIONS FOR USE ON LL COTTON

- **DO NOT** apply LIBERTY 280 SL HERBICIDE to LL cotton in Florida, South of Tampa (Florida Route 60), or in Hawaii, except for test plots or breeding nurseries.
- DO NOT apply LIBERTY 280 SL HERBICIDE within 70 days prior to cotton harvest.
- **DO NOT** apply this product through any type of irrigation system.
- Refer to the "Rotational Crop Restrictions" section under the "Product Information" heading of this label for the appropriate rotational crop plant back intervals.

LL COTTON TANK MIX INSTRUCTIONS

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

APPLICATION DIRECTIONS FOR USE ON COTTON

Application of LIBERTY 280 SL HERBICIDE 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. Uniform, thorough spray coverage is necessary to achieve consistent weed control.

APPLICATION DIRECTIONS

1	
	 Apply to small and actively growing weeds, targeting less than 3 inch weeds in height. For additional information on weed heights refer to the Weed Control for Row Crops section.
Application Timing	 For Best results, warm temperatures, high humidity, and bright sunlight improve the performance of LIBERTY 280 SL HERBICIDE.
, ipplication it is a	 Weed control may be reduced if application is made when heavy dew, fog, and mist/rain are present; or when weeds are under stress due to environmental conditions such as drought, cool temperatures, or extended periods of cloudiness.
	 To avoid the possibility of reduced lambsquarters, Palmer amaranth and velvetleaf control, applications should be made between dawn and 2 hours before sunset.
Analization Has Bata Commission	 Apply 32 - 43 fl oz/A in first application depending on weed species, size and density per weed chart.
Application Use Rate Scenario 1 (2 post applications)	 If required a second application of 29 fl oz/A can be applied.
	 The second application should be made minimum 10 days up to 14 days after the first application.
Maximum Per Year	• 72 fl oz /A.
	 Apply 29 fl oz/A per application depending on weed species, size and density per weed chart.
Application Use Rate Scenario 2 (3 post applications)	 If required a second application of 29 fl oz/A can be applied, followed by a third application of 29 fl oz/A.
	 The sequential applications should be made minimum 10 days up to 14 days after each other.
Maximum Per Year	• 87 fl oz /A.
	 Ammonium sulfate (AMS) can be used at 1.5 lb/A to 3 lb/A. Rates are dependent on tankmix partners, environmental conditions, temperatures and potential for leaf burn.
Adjuvants	 AMS has shown to improve weed control of difficult-to-control weeds, like velvetleaf and lambsquarters, under difficult environmental conditions (low relative humidity) or hard water.
	Anti-foam agent is recommended.
Surfactants/Oils	 The use of additional surfactants or crop oils may increase the risk of crop response. Please refer to surfactant label for more detailed directions.
Application window	Emergence up to early bloom.

	15 GPA minimum.	
Spray Volume	 If dense canopy, large weeds or unfavorable growing conditions are present, increase water volume to a minimum of 20 GPA. 	
Nozzle Spray Quality	 Medium to Coarse nozzles. Liberty is a contact herbicide and requires proper nozzles with uniform thorough spray coverage to achieve optimum weed control. 	
	See nozzle section for more detailed information.	
Rainfast	4 hours.	
Maximum Number of Applications per Year	Refer to Table 4	

APPLICATION METHODS TO NON-LIBERTYLINK COTTON

Application of LIBERTY 280 SL HERBICIDE to cotton varieties not labeled as LibertyLink requires the use of hooded spray equipment designed to minimize exposure of the spray to the cotton stand. A hooded sprayer directs the spray onto weeds, while shielding the cotton stand from contact. Use nozzles that provide uniform coverage within the treated area. Keep hoods on these sprayers adjusted to protect desirable vegetation. Extreme care must be exercised to avoid exposure of the desirable vegetation to the spray.

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

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

Band width in inches Row width in inches	Х	Broadcast RATE per acre	=	Amount of banded product needed per acre
Band width in inches	X	Broadcast spray VOLUME		Banded spray volume
Row width in inches	^	per acre	=	needed per acre

POST-HARVEST - Fall Burndown

LIBERTY 280 SL HERBICIDE may be applied as a post-harvest burndown treatment to fields (after cotton harvest). Up to 43 fl oz/A of LIBERTY 280 SL HERBICIDE may be applied in a single application to control larger weeds growing in the crop at the time of harvest. If more than 29 fl oz/A is used in a single application, the **yearly** total may not exceed 72 fl oz/A, including all application timings. Refer to the *Rotational Crop Restrictions* section of this label for appropriate rotational crop information.

COTTON TANK MIX INSTRUCTIONS

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

APPLICATION DIRECTIONS FOR USE ON LIBERTYLINK SOYBEANS

Apply LIBERTY 280 SL HERBICIDE only to soybean designated as LibertyLink. Uniform, thorough spray coverage is necessary to achieve optimum weed control.

APPLICATION DIRECTIONS

ALL EIGATION DIRECTIONS	
	 Apply to small and actively growing weeds, targeting less than 3 inch weeds in height. For additional information on weed heights refer to the Weed Control for Row Crops section.
	 For Best results, warm temperatures, high humidity, and bright sunlight improve the performance of Liberty 280 SL Herbicide.
Application Timing	 Weed control may be reduced if application is made when heavy dew, fog, and mist/rain are present; or when weeds are under stress due to environmental conditions such as drought, cool temperatures, or extended periods of cloudiness.
	 To avoid the possibility of reduced lambsquarters, Palmer amaranth and velvetleaf control, applications should be made between dawn and 2 hours before sunset.
Application window	Emergence up to bloom or R1 growth stage.
	 Apply 29 - 43 fl oz/A depending on weed species, size and density per weed chart.
Application Use Rate	 If required a second application of 29 - 43 fl oz/A can be applied up to a yearly maximum of 87 fl oz/A.
	 The second application should be made minimum 5 days after the first application.
Maximum Per Year	• 87 fl oz /A.
	 Ammonium sulfate (AMS) can be used at 1.5 lb/A to 3 lb/A. Rates are dependent on tankmix partners, environmental conditions, temperatures and potential for leaf burn.
Adjuvant	 AMS has shown to improve weed control of difficult-to-control weeds, like velvetleaf and lambsquarters, under difficult environmental conditions (low relative humidity) or hard water.
	Anti-foam agent is recommended.
Surfactants/Oils	 The use of additional surfactants or crop oils may increase the risk of crop response. Please refer to surfactant label for more detailed directions.
	15 GPA minimum.
Spray Volume	 If dense canopy, large weeds or unfavorable growing conditions are present, increase water volume to a minimum of 20 GPA.
Nozzle Spray Quality	 Medium to Coarse nozzles. Liberty is a contact herbicide and requires proper nozzles with uniform thorough spray coverage to achieve optimum weed control.
	See nozzle section for more detailed information.
Rainfast	4 hours.
Maximum Number of Applications per Year	Refer to Table 5

APPLICATION RATE AND TIMING

Use Pattern Rate Ranges		
1 st Application	2 nd Application	Per Year
29 - 43 fl oz/A	29 - 43 fl oz/A	87 fl oz/A

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RESTRICTIONS TO THE DIRECTIONS FOR USE ON LL SOYBEANS

- DO NOT apply LIBERTY 280 SL HERBICIDE within 70 days of harvesting LL soybean seed.
- DO NOT apply more than 87 fl oz/A of LIBERTY 280 SL HERBICIDE on LL soybeans 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** apply LIBERTY 280 SL HERBICIDE if soybeans show injury from prior herbicide applications or environmental stress (drought, excessive rainfall, etc.).
- **DO NOT** apply this product through any type of irrigation system.
- Refer to the "Rotational Crop Restrictions" section under the "Product Information" heading of this label for the appropriate rotational crop plant back intervals.
- Sequential applications should be at least 5 days apart.

LL SOYBEAN TANK MIX INSTRUCTIONS

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

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

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

- LL Canola: LIBERTY 280 SL HERBICIDE may also be used in canola seed propagation as a foliar spray to selectively eliminate canola plants that do not carry a gene that imparts tolerance to glufosinate-ammonium and as such, can be applied to remove susceptible segregates during canola seed propagation. Breeding material not possessing the glufosinate-ammonium tolerance gene will be severely injured or killed if treated with this herbicide. See *Application Use Directions for Use on Canola* for use rates and application timing.
- LL Corn: Inbred lines, plants not possessing glufosinate-ammonium tolerance, will be severely injured or killed if treated with this herbicide. A hooded sprayer may be used to protect plants from coming into contact with the herbicide application. For the selection of tolerant corn "segregates", LIBERTY 280 SL HERBICIDE may be applied at 22 fl oz/A plus AMS at 3 lb/A (17 lb/100 gallons) when corn is in the V-3 to V-4 stage of growth, i.e., 3 to 4 developed collars. A second treatment of 22 fl oz/A plus AMS at 3 lbs/A may be applied when the corn is in the V-6 to V-7 stage of growth or up to 24" tall. Sequential applications should be at least 10 days apart. When temperatures exceed 85° F, the rate of AMS can be reduced to 1.5 lbs/A (8.5 lbs/100 gallons) to reduce potential leaf burn.
- **LL Cotton:** LIBERTY 280 SL HERBICIDE may also be used in cotton seed propagation as a foliar spray to selectively eliminate cotton plants that do not carry a gene that imparts tolerance to glufosinate-ammonium and as such, can be applied to remove susceptible segregates during cotton seed propagation. Breeding material not possessing the glufosinate-ammonium tolerance gene will be severely injured or killed if treated with this herbicide. See *Application Use Directions for Use on Cotton* for use rates and application timing.
- LL Soybeans: For the selection of tolerant soybean "segregates", LIBERTY 280 SL HERBICIDE may be applied at up to 29 43 fl oz/A when soybean is in the third trifoliate stage. A second treatment of 29 43 fl oz/A may be applied up to but not including the bloom growth stage of soybean. Sequential applications should be at least 5 days apart.

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

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

REGISTERED CROPS

Bushberries: blueberry, currant, elderberry, gooseberry, and huckleberry

Other Berries: Lingonberry, juneberry, and Salal

Citrus: lemon, orange, grapefruit, lime, mandarin, tangerine, tangelo, calamondin, kumquat, pummelo, citron, citrus hybrids, Tangor, and cultivare, varieties and/or hybrids of these

and cultivars, varieties and/or hybrids of these

Olives

Pome Fruit: Apple, pear, crabapple, loquat, mayhaw, quince, azarole, Medlar, Tejocote, cultivars, varieties and/or hybrids of these

Stone Fruit: Apricot, cherry, peach, nectarine, plum, capulin, jujube, Sloe, and cultivars, varieties and/or hybrids of these

Tree Nuts: almonds, filberts, hickory nuts, macadamia nuts (bush nuts), pecans, pistachios, and walnuts

Vineyards: grape varieties (table, wine, and raisins)

APPLICATION RATE AND TIMING

For best results, apply to emerged, young, actively growing weeds. Warm temperatures, high humidity, and bright sunlight improve the performance of LIBERTY 280 SL HERBICIDE. 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 LIBERTY 280 SL HERBICIDE until sufficient regrowth has occurred.

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

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

Application Methods for Broadcast Applications

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

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

Application Methods for Banded Spray Applications

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

Band width in inchesxRate per acre=Amount of herbicideRow width in inchesbroadcastneeded for treatment

Application Methods for Spot or Directed-Spray Applications

For spot or directed spray applications: mix LIBERTY 280 SL HERBICIDE at 1.7 fl oz of product per gallon of water. Apply to undesirable vegetation foliage until wet but prior to runoff. Ensure uniform and complete coverage. Thoroughly clean the sprayer following use. **DO NOT** make spot or directed spray applications to tree or vine trunk as injury may occur.

Weeds Controlled in Tree, Vine and Berry crops

Broadleaf Weeds

Alkali sida Ammannia, purple Arrowhead, California Buckwheat, wild Buffalobur

Burclover, California Carpetweed Chickweed, common Chinese thornapple

Cocklebur, common Copperleaf, Virginia Cudweed

Cutleaf eveningprimrose Dodder

Eclipta Fiddleneck Filaree

Filaree, redstem

Fleabane, annual Goosefoot Gromwell, field Groundcherry, cutleaf Groundsel, common

Henbit Jimsonweed Knotweed Kochia

Lambsquarters, common

Lettuce, miner's Lettuce, prickly London rocket Mallow, common Malva (little mallow)

Marestail Mayweed

Morningglory, entireleaf

Morningglory, ivyleaf Morningglory, pitted Mullein, turkey Mustard, wild Nettle

Nightshade, black Nightshade, eastern black

Nightshade, hairy Pennycress Pigweed, redroot Pineapple-weed Puncturevine Purslane, common Radish, wild Ragweed, common

Ragweed, giant Redmaids

Shepherd's-Purse

Smartweed, Pennsylvania Sowthistle, annual

Spurge, prostrate Starthistle, yellow Sunflower, common Sunflower, prairie Sunflower, volunteer

Swinecress Thistle, Russian Turnip, wild Velvetleaf Vervain Vetch

Virginia copperleaf Willowherb, panicle

Grass Weeds

Barnyardgrass Bluegrass, annual Brome, ripgut Bromegrass, downy Canarygrass Chess, soft Crabgrass, large

Crabgrass, smooth Cupgrass, woolly Foxtail, giant Foxtail, green Foxtail, yellow Goosegrass

Johnsongrass, seedling

Junglerice Oat, wild Panicum, fall Panicum, Texas Rush, toad** Ryegrass, annual* Sandbur, field

Shattercane Sprangletop Stinkgrass Wheat, volunteer Windgrass Witchgrass

Biennial and Perennial Weeds

Aster, white heath Bindweed, field Bindweed, hedge Bluegrass, Kentucky Bromegrass, smooth

Bulrush* Burdock Canada thistle Clover, Alsike Clover, red

Clover, white * apply to annual ryegrass prior to 3 inches in height

** indicates suppression

Dallisgrass Mustard, tansy Dandelion Nutsedge, purple Nutsedge, yellow Dock, curly dogbank (hemp) Onion, wild Fescue Orchardgrass Goldenrod, gray Paragrass

Guineagrass Plantain Horsetail Poison ivy/oak Lovegrass Quackgrass Mugwort Rocket, yellow Mullein, common Rose, wild

Rubus spp. Spurge, leafy Thistle, bull Thistle, musk Torpedograss Vasevgrass Woodsorrel Yarrow, common

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

- DO NOT apply more than 164 fl oz of LIBERTY 280 SL HERBICIDE per acre (3 lbs ai/A) to berry bushes and stone fruit in a 12-month period. **DO NOT** make more than 2 applications at a maximum rate of 82 fl oz per acre (1.5 lb ai/A) per application.
- **DO NOT** apply more than 246 fl oz (4.5 lbs ai/A) of this product per acre to tree nuts, vines, pome fruit, citrus, and olives in any calendar year. **DO NOT** make more than 3 applications at a maximum rate of 82 fl oz per acre (1.5 lb ai/A) per application.
- DO NOT graze, harvest, and/or feed treated orchard cover crops to livestock. 3
- **DO NOT** apply this product through any type of irrigation system. 4.
- 5. **DO NOT** apply this product aerially to tree, berry, or vine crops.
- 6. **DO NOT** apply this product within 14 days of nut, fruit, berry, or grape harvest.
- Applications to citrus fruits, pome fruits and olives must be a minimum of 14 days apart. 7.
- Applications to stone fruit must be a minimum of 28 days apart. 8.
- DO NOT make spot spray applications to suckers, as tree injury may occur.

SUCKER CONTROL WITH LIBERTY 280 SL HERBICIDE

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

TANKMIX PARTNER INSTRUCTIONS

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

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

Karmex® DF Simazine 90

APPLICATION DIRECTIONS FOR POTATO VINE DESICCATION

APPLICATION RATE AND TIMING

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

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

RESTRICTIONS TO THE DIRECTIONS FOR USE IN POTATO VINE DESICCATION

- 1. **DO NOT** apply more than 21 fl oz/A to potato vines per year.
- 2. DO NOT harvest potatoes until 9 days or more after application of LIBERTY 280 SL HERBICIDE.
- 3. **DO NOT** apply to potatoes grown for seed.
- 4. Potatoes, canola, corn, cotton, soybean, and sugar beets may be planted at any time after the application of LIBERTY 280 SL HERBICIDE as a potato vine desiccant.
- 5. **DO NOT** plant treated areas to wheat, barley, buckwheat, millet, oats, rye, sorghum, and triticale until 30 or more days after an application of LIBERTY 280 SL HERBICIDE as a potato vine desiccant.
- 6. DO Not plant treated areas to root and tuber vegetables, leafy vegetable, and brassica vegetable until 70 days after an application of Liberty 280 SL HERBICIDE as a potato vine desiccant.
- 7. **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 LIBERTY 280 SL HERBICIDE as a potato vine desiccant.
- 8. **DO NOT** split this application or apply more than one application per harvest.

FALLOW FIELDS OR POST HARVEST

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

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

FARMSTEADS, RECREATIONAL, AND PUBLIC AREAS

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

STORAGE AND DISPOSAL

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

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

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

CONTAINER HANDLING:

[Rigid, Non-refillable containers small enough to shake (i.e., with capacities equal to or less than 5 gallons)]
Non-refillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying. Triple rinse as follows:
Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Once container is rinsed, then offer for recycling if available or reconditioning if appropriate; or puncture and dispose of in a sanitary landfill, or by incineration; or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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

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

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

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

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

IMPORTANT: READ BEFORE USE

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

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

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

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Net Contents: 2.5 Gallons, 270 Gallons & Bulk

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Produced for



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