





# LIBERTY<sup>®</sup> 200SN

HERBICIDE

<b>Crops:</b>	Canola and Corn tolerant to LIBERTY 200SN
<b>Guarantee:</b>	glufosinate ammonium 200 g/L
<b>PCPA Registration No.:</b>	25337
<b>Commercial:</b>	Caution  Poison  Triple  Rinse  Warning: Eye Irritant Caution: Skin Irritant READ THE LABEL BEFORE USING

## The Product

- LIBERTY 200SN provides control of a broad spectrum of grassy and broadleaf weeds in Canola varieties and Corn hybrids that are specially developed to be tolerant to glufosinate ammonium (for example LibertyLink<sup>®</sup> seeds).
- LIBERTY 200SN may also be applied to glufosinate ammonium tolerant inbred Corn lines grown for seed production.

## Precautions

- **WARNING: EYE IRRITANT**
- **CAUTION: POISON**
- **CAUTION: SKIN IRRITANT**
- **KEEP OUT OF REACH OF CHILDREN.**
- Avoid contact with eyes, skin or clothing.
- Avoid breathing spray mist.
- Wash thoroughly after using and before eating, drinking or smoking.

## Protective Clothing and Equipment

- Wear protective clothing including a long-sleeved shirt, long pants, goggles, chemical resistant gloves, and respirator when handling or spraying.
- Wear chemical resistant gloves for cleanup and repair.

## Re-entry Restriction:

- Workers should not enter treated fields within 24 hours of treatment.
- Workers who must enter fields within this time period should wear long-sleeved shirts, long pants and chemical resistant gloves.

## First Aid

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**Ingestion:** If swallowed, rinse mouth thoroughly with plenty of water. **DO NOT** induce vomiting. Immediately contact a poison control centre, or take patient to hospital with this label.

**Eye Contact:** If in contact with eyes, flush with plenty of water for 15 minutes. Immediately contact a poison control centre, or take patient to hospital with this label.

**Skin Contact:** In case of skin contact, remove contaminated clothing and wash skin thoroughly with soap and water.

**Inhalation:** If inhaled, transfer individual from site of exposure.

## Toxicological Information

- Medical personnel should contact Aventis' medical information services toll-free 1-800-334-7577.
- 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.

## Environmental Precautions and Information

- Do not contaminate water supplies, ponds, lakes, streams and irrigation ditches by direct application, spray drift or when cleaning and rinsing spray equipment or containers.
- Leave a 15 metre buffer between the edge of the treated field and adjacent crops not tolerant to LIBERTY 200SN or environmentally sensitive areas (for instance: wetlands, ponds, rivers or other open bodies of water, shelterbelts or wildlife habitat).
- Avoid spray drift onto susceptible plants and **USE ONLY FOR RECOMMENDED PURPOSES AND AT RECOMMENDED RATES.**

## Storage

- Cannot be stored below freezing.
- If stored for 1 year or longer, shake well before using.
- Store the tightly closed container away from feeds, seeds, fertilizers, plants and foodstuffs.
- Do not use or store in or around the home.
- Keep in original container during storage.

## Disposal

### Recyclable Container Disposal:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

### Disposal of Unused, Unwanted Product:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills.

### Disposal of Unused Spray Solution:

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, away from water supplies, ditches, and irrigation canals.

## Directions for Use

- Best control will be obtained when LIBERTY 200SN is applied at the recommended leaf stages of the weeds.
- In Canola, apply LIBERTY 200SN from the cotyledon to the early bolting stage of Canola.
- In Corn, apply LIBERTY 200SN from the 1-8 leaf stage of the Corn plant or 5-6 visible collars (the leaf is counted once the next leaf is visible in the whorl).

Crop	Weed	Recommended Time (Leaf Stage)										Rate	
		1	2	3	4	5	6	7	8				
CANOLA AND CORN tolerant to LIBERTY 200SN	Crabgrass												1.5 L/ha
	Giant Foxtail												
	Green Foxtail												
	Proso Millet												
	Chickweed												
	Cocklebur												
	Ragweed												
	Redroot Pigweed												
	Shepherd's-purse												

Crop	Weed	Recommended Time (Leaf Stage)										Rate	
		1	2	3	4	5	6	7	8				
CANOLA AND CORN tolerant to LIBERTY 200SN	Barnyard Grass												2 L/ha
	Bristly Foxtail												
	Fall Panicum												
	Old Witchgrass												
	Wild Oats												
	Yellow Foxtail												
	Eastern Black Nightshade												
	Lady's-thumb												
	Lamb's-quarters												
	Perennial Sow-thistle												
	Ragweed												
	Stinkweed												
	Velvetleaf												
	Wild Buckwheat												
	Wild Mustard												
	Wormseed Mustard												

**Canada Thistle and Field Bindweed:** For season long suppression of Canada Thistle and Field Bindweed, apply LIBERTY 200SN at a rate of 2 L/ha when the weeds are in the 1-6 leaf stage.

**Quackgrass:** For season long suppression of Quackgrass, apply LIBERTY 200SN at a rate of 2.5 L/ha plus ammonium sulphate at a rate of 6 L/ha (49% solution) OR 3 kg/ha (99% solution) when the Quackgrass is in the 1-4 leaf stage.

**Additives:** For enhanced control of Velvetleaf, add ammonium sulphate to the tank at a rate of 6 L/ha (49% solution) OR 3 kg/ha (99% solution).

**Second Application:** A second application of LIBERTY 200SN can be made to fields treated initially with up to 2.5 L/ha if new weed germination or growth is present. Apply when the new weed growth is in the correct leaf stage and up to the 8 leaf stage of Corn. Application after the 8 leaf stage of Corn must be made with drop nozzles as a directed spray below the whorl of the Corn plant.

Do not apply beyond the early bolting stage of Canola.

Do not apply more than a total of 4.5 L/ha in one season.

**SPLIT APPLICATION PROGRAM:** For season long control of the above listed weeds a split application program with LIBERTY 200SN can be utilized. The first application must be a minimum of 2 L/ha and at the proper weed stage. For the second application, the rate of 1.25 L/ha may be utilized provided LIBERTY 200SN is applied as soon as the second flush of weeds occurs and before the 8 leaf stage of the crop.

## Tank-Mixes

Consult the label of the tank-mix partner for further instructions regarding directions for use, restrictions and precautions. Certain tank-mix partners may have additional restrictions for leaf staging.

For control of weeds present and control of later flushes of annual broadleaf weeds and/or annual grasses (see tank-mix Directions), LIBERTY 200SN may be tank-mixed with the following herbicides:

Crop	Tank-Mix Product	Directions	Rate
CANOLA	Venture® 25 DG	In Canola only: For enhanced suppression of Quackgrass, apply LIBERTY 200SN at a rate of 2 L/ha plus Venture 25 DG at a rate of 700 g/ha with adjuvant as recommended on the Venture 25 DG label, when Quackgrass is in the 1-4 leaf stage.	700 g/ha
CORN	Aatrex® Nine-0	Mix with the appropriate rate of LIBERTY 200SN for the targeted weed species. Adjust Aatrex Nine-0 rate to the level of residual activity desired. This tank-mix will not control later flushes of triazine resistant weeds.	930 g -1.24 kg/ha
CORN	Atrazine 500F*	Mix with the appropriate rate of LIBERTY 200SN for the targeted weed species. Adjust atrazine rate to the level of residual activity desired. This tank-mix will not control later flushes of triazine resistant weeds.	1.68 -2.24 L/ha
CORN	Banvel®, Clarity®	Mix with the appropriate rate of LIBERTY 200SN for the targeted weed species. This tank-mix will provide enhanced control of annual broadleaf weeds.	625 mL/ha
CORN	Marksman®	Mix with the appropriate rate of LIBERTY 200SN for the targeted weed species. Adjust Marksman rate to the level of residual activity desired. This tank-mix will provide residual control of annual grasses and annual broadleaf weeds.	2.5 -3.7 L/ha
CORN	Prowl® 400 EC*	Mix with the appropriate rate of LIBERTY 200SN for the targeted weed species. This tank-mix will provide residual control of annual grasses, Lamb's-quarters and Redroot Pigweed.	2.5 L/ha

\* for atrazine and Prowl products with different concentration, adjust the rate accordingly.

**Note:** Do not tank-mix LIBERTY 200SN with pesticides, fertilizers or any other chemical additives unless recommended on this label.

## Herbicide Resistance Management

To help prevent the potential development of resistant weed populations, LIBERTY 200SN should be rotated with herbicides that have different modes of action, or used in conjunction with alternate cultural practices that are effective in controlling these weeds.

## Application Instructions

- For best results, apply to emerged, young, actively growing weeds. Weeds that emerge after application will not be controlled.
- LIBERTY 200SN will have an effect on weeds that are larger than the recommended leaf stage, however speed of activity and control may be reduced.
- Apply LIBERTY 200SN in a minimum of 110 L/ha of water, at a pressure of 175-275 kPa and at a ground speed of 6-10 kph. The use of 80° or 110° flat fan nozzles is highly recommended for optimum spray coverage and canopy penetration.
- Application of the spray at a 45° angle forward will result in better spray coverage. Follow directions elsewhere on the label for the correct rate and timing of application.
- The speed of action of LIBERTY 200SN is influenced by environmental factors. At cool temperatures (below 10°C), poor moisture and low humidity, speed of action may be reduced. Generally, visual symptoms appear 2-4 days after application.
- IF RAINFALL OCCURS WITHIN 4 HOURS OF APPLICATION, EFFECTIVENESS MAY BE REDUCED.
- Weed control may be reduced when heavy dew, fog or mist are present at the time of application.
- LIBERTY 200SN works primarily as a contact herbicide. Thorough coverage of the weeds to be controlled is essential.

## Application Cautions

- **GROUND APPLICATION ONLY. DO NOT APPLY BY AIR.**
- Do not use flood jet nozzles, controlled droplet application equipment or air-assisted spray equipment.
- Uniform, thorough spray coverage is important to achieve consistent weed control.
- **DO NOT** apply if winds exceed 16 kph when using open boom sprayers. **DO NOT** apply if winds exceed 25 kph when using hooded sprayers.
- Avoid contact with desirable plants or crops either from direct application or from spray drift as severe damage may occur.
- Plant Back Intervals:
  - 70 days for Buckwheat, Barley, Millet, Oats, Rye, Sorghum, Triticale and Wheat.
  - 120 days for all other crops except Field Corn, Canola and Soybeans. No plant back interval is required for Field Corn, Canola or Soybeans.
- **APPLICATION OF LIBERTY 200SN TO NON-TOLERANT CROPS WILL RESULT IN SEVERE CROP INJURY OR DEATH OF THE CROP.**
- **SUSCEPTIBLE WEEDS:** LIBERTY 200SN has an effect on all weeds and crops except for those crops which are developed to be tolerant to applications of LIBERTY 200SN.

## Mixing Instructions

- LIBERTY 200SN must be applied with properly calibrated, clean equipment.
  - LIBERTY 200SN is specially formulated to mix readily in water.
  - Prior to adding LIBERTY 200SN to the spray tank, ensure that the spray tank is thoroughly clean (see "SPRAYER CLEANUP").
1. Fill tank to three-quarters full with clean water prior to adding LIBERTY 200SN.
  2. Add the correct amount of LIBERTY 200SN.
  3. Add the remaining amount of water, begin agitation, and spray out immediately.
- Note:** When tank-mixing LIBERTY 200SN always add the tank-mix partner to the tank first, ensure that it is thoroughly mixed, THEN add LIBERTY 200SN. When using ammonium sulphate ALWAYS add it to the tank first, prior to the addition of the tank-mix partner and LIBERTY 200SN. When using the Venture 25 DG tank-mix, ALWAYS add the Venture surfactant LAST (after LIBERTY 200SN has been added), then add the remaining amount of water and agitate.

**Note:** The addition of an anti-foaming agent may reduce foaming, especially when using soft water.

**Note:** Ensure that all circuits (pipes, booms, etc.) have the correct LIBERTY 200SN/water concentration before application is started.

## Sprayer Cleanup

- Before and after using LIBERTY 200SN always complete a thorough cleaning of the spray tank, lines and filter. Spray equipment should be thoroughly rinsed using a strong detergent solution.

## Livestock Feeding and Preharvest Intervals

### CANOLA:

- Grain and meal from treated Canola can be fed to livestock.
- DO NOT graze or feed other portions of the treated Canola to livestock; there are not sufficient data to support such use.
- When LIBERTY 200SN is tank-mixed with Venture 25 DG, observe a PHI of 80 days from the date of treatment (or last treatment when a second application has been made).

### CORN:

- DO NOT apply within 86 days of harvesting Corn grain.
- DO NOT graze the treated fields within 20 days of application.

### SOYBEAN:

- DO NOT apply within 70 days of harvesting Soybean seed.
- DO NOT graze the treated fields within 20 days of application.

## Notice to User

This control product is to be used only in accordance with the directions on this label. It is an offense under the Pest Control Products Act to use a control product under unsafe conditions.

## Notice to Buyer

Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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**IN CASE OF SPILLS, POISONING OR FIRE,  
TELEPHONE EMERGENCY RESPONSE  
1-800-334-7577 (24 HOURS A DAY)**

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### For more information contact:

**Aventis CropScience  
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1-888-283-6847**

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