

PMRA APPROVED LABEL, JB  
2024-10-23, Sub. No. 2024-4696  
*Base container label*

Please note that the highlighted text has been updated by the  
PMRA on your behalf. Please update your label accordingly.

GROUP	10	HERBICIDE
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WinField Glufosinate 150

SOLUTION

COMMERCIAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

REGISTRATION NUMBER 35314 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: Glufosinate ammonium ... 150 g/L



WARNING: SKIN AND EYE IRRITANT

FOR SPILL, LEAK OR FIRE CALL CHEMTREC AT 1-800-424-9300 (24 HOURS A DAY)

NET CONTENTS: 10 L, 120 L, 500 L, 1000 L

Registered By:  
Winfield Solutions, LLC  
P.O. Box 64589  
St. Paul, MN 55164-0589 ~ USA

Distributed By:  
Winfield United Canada, ULC  
101-302 Wellman Lane  
Saskatoon, SK S7T 0J1 ~ CANADA  
1-888-975-4769

## PRECAUTIONS

**KEEP OUT OF REACH OF CHILDREN.** Harmful or fatal if absorbed through the skin. May irritate the skin. Harmful if swallowed. Causes eye irritation. **DO NOT** get in eyes, on skin or on clothing. Avoid breathing spray mist. Wash thoroughly after using and before eating, drinking or smoking.

**Protective Clothing and Equipment:** Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes, and protective eyewear (goggles or face shield) during mixing, loading, application, clean-up and repair. Gloves and protective eyewear (goggles or face shield) are not required during application within a closed cab and/or cockpit.

If used in a tank mix, follow the most protective PPE directions of the products used.

**Re-entry Restriction:** Workers should not enter treated fields within 24 hours of treatment. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

Apply only to agricultural crops when the potential for drift to areas of human habitation and areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

## FIRST AID

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

**IF SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice.

Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. **DO NOT** give anything by mouth to an unconscious person.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for treatment advice.

## TOXICOLOGICAL 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.

## ENVIRONMENTAL PRECAUTIONS

**TOXIC** to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under **DIRECTIONS FOR USE**.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

#### STORAGE

DO NOT store product below freezing.

If stored for 1 year or longer, shake well before using.

Do not use or store in or around the home.

Keep in original container during storage.

Store this product away from food or feed.

#### DISPOSAL

RECYCLABLE CONTAINER DISPOSAL (less than 23 litres):

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/ territorial requirements.

#### RETURNABLE CONTAINER DISPOSAL

DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

#### REFILLABLE CONTAINER DISPOSAL

For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

It must be refilled by the distributor/dealer with the same product. DO NOT reuse this container for any other purpose.

#### DISPOSAL OF UNUSED, UNWANTED PRODUCT

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/ territorial regulatory agency. Contact the manufacturer and the provincial/ territorial 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.

#### NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

*Full brochure label*

# WinField Glufosinate 150

SOLUTION

COMMERCIAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING  
REGISTRATION NUMBER 35314 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: Glufosinate ammonium.....150 g/L



WARNING: SKIN AND EYE IRRITANT

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NET CONTENTS: 10 L, 120 L, 500 L, 1000 L

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1-888-975-4769

## GENERAL INFORMATION

WinField Glufosinate 150 provides control of a broad spectrum of grassy and broadleaf weeds in Canola and Soybean varieties or hybrids that are specially developed to be tolerant to glufosinate ammonium.

WinField Glufosinate 150 is registered for use on glufosinate ammonium tolerant Canola and Soybean varieties or hybrids [example: varieties or hybrids labelled with LibertyLink®].

WinField Glufosinate 150 may also be applied to glufosinate ammonium tolerant lines or varieties grown for seed production.

For hybrid seed production in canola, WinField Glufosinate 150 may be used to remove segregating wild type plants within the female population. Two applications are required to do this. A third application may be necessary if it is determined that the segregating wild type plants are not fully removed from the field.

Glufosinate ammonium tolerant Corn can be used as separator rows in hybrid Canola seed production, but must be destroyed and not used for food or feed.

WinField Glufosinate 150 may be used as a harvest aid (desiccant) on Alfalfa grown for seed.

WinField Glufosinate 150 will desiccate weeds that are present in the field at time of application when used as a harvest aid.

## PRECAUTIONS

**KEEP OUT OF REACH OF CHILDREN.** Harmful or fatal if absorbed through the skin. May irritate the skin. Harmful if swallowed. Causes eye irritation. **DO NOT** get in eyes, on skin or on clothing. Avoid breathing spray mist. Wash thoroughly after using and before eating, drinking or smoking.

**Protective Clothing and Equipment:** Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes, and protective eyewear (goggles or face shield) during mixing, loading, application, clean-up and repair. Gloves and protective eyewear (goggles or face shield) are not required during application within a closed cab and/or cockpit.

If used in a tank mixture, follow the most protective PPE directions of the products used.

**Re-entry Restriction:** Workers should not enter treated fields within 24 hours of treatment.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

Apply only to agricultural crops when the potential for drift to areas of human habitation and areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

## FIRST AID

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

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Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison

control centre or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for treatment advice.

#### TOXICOLOGICAL 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.

#### ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

#### STORAGE

DO NOT store product below freezing.

If stored for 1 year or longer, shake well before using.

Do not use or store in or around the home.

Keep in original container during storage.

Store this product away from food or feed.

#### DISPOSAL

RECYCLABLE CONTAINER DISPOSAL (less than 23 litres):

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:

3. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
4. 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/ territorial requirements.

#### RETURNABLE CONTAINER DISPOSAL

DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

#### REFILLABLE CONTAINER DISPOSAL

For disposal, this empty container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. DO NOT reuse this container for any other purpose.

## DISPOSAL OF UNUSED, UNWANTED PRODUCT

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/ territorial regulatory agency. Contact the manufacturer and the provincial/ territorial 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

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

## POST EMERGENT USES

### CANOLA – EASTERN CANADA AND COASTAL BRITISH COLUMBIA ONLY

WinField Glufosinate 150 is registered for aerial and ground application to glufosinate ammonium tolerant Canola varieties or hybrids [example: varieties or hybrids labelled with LibertyLink®].

To assure crop safety and optimal herbicide performance, only use WinField Glufosinate 150 on glufosinate ammonium tolerant (*i.e.*, LibertyLink) Canola grown from certified seed.

Application of WinField Glufosinate 150 to non-tolerant Canola varieties or hybrids or other non-tolerant crops will result in severe crop injury or death of the crop.

Apply WinField Glufosinate 150 from the cotyledon stage up until, but prior to, the early bolting stage of Canola.

Refer to weed/rate chart in this label for application rates and weeds controlled.

For control/suppression of late emerging weeds or if new weed germination or growth is present re-apply WinField Glufosinate 150.

Up to three applications of WinField Glufosinate 150, each at a maximum of 4 L/ha may be made. The third application must occur prior to the early bolting stage of Canola.

DO NOT apply more than a total of 12 L/ha per year.

Apply when the new weed growth is in the correct leaf stage and up until, but prior to, the bolting stage of Canola.

For best results, apply to emerged, young, actively growing weeds. Weeds that emerge after application will not be controlled.

WinField Glufosinate 150 will have an effect on weeds that are larger than the recommended leaf stage; however, speed of activity and control may be reduced.

Slight discoloration of the Canola may be visible after application. This effect is temporary and will not influence crop growth, maturity or yield.

For application to glufosinate ammonium and glyphosate tolerant canola varieties or hybrids (example: canola varieties or hybrids labelled with LibertyLink® and Roundup Ready® or TruFlex™ or Optimum® Gly): WinField Glufosinate 150 should be applied in a sequential program with glyphosate for effective weed control. Tank-mixing WinField Glufosinate 150 with glyphosate may result in reduced control on certain weed species.

WinField Glufosinate 150 may also be applied to glufosinate ammonium tolerant Canola lines or

varieties grown for seed production.

#### FOR HYBRID SEED PRODUCTION

Two applications are required to remove the segregating wild type plants. The first application should occur when the Canola is in the 2-4 leaf stage, the second application when the Canola plants are in the 4-6 leaf stage and the third application, if necessary, may be applied to the Canola up until, but prior to, the bolting stage. All applications of WinField Glufosinate 150 for hybrid seed production should be made at 3.33 – 4 L/ha.

#### USE OF CORN SEPARATOR ROWS IN HYBRID CANOLA SEED PRODUCTION

WinField Glufosinate 150 is registered for use on glufosinate ammonium tolerant Corn varieties or hybrids when used as separator rows [example: varieties or hybrids labelled with Liberty Link® in hybrid Canola seed production.

Corn should be seeded at 20,000 – 30,000 plants/ha.

Row spacing for glufosinate ammonium tolerant Corn should be 18-23 cm.

NOTE: Corn must be destroyed and not used for food or feed.

Follow use instructions for canola and general instructions in this label.

#### CANOLA - PRAIRIE PROVINCES AND INTERIOR OF BRITISH COLUMBIA ONLY

WinField Glufosinate 150 is registered for aerial and ground application to glufosinate ammonium tolerant Canola varieties or hybrids [example: varieties or hybrids labelled with LibertyLink®] grown in the Prairie Provinces and Interior of British Columbia only.

To assure crop safety and optimal herbicide performance, only use WinField Glufosinate 150 on glufosinate ammonium tolerant (*i.e.*, LibertyLink®) Canola grown from certified seed.

Application of WinField Glufosinate 150 to non-tolerant Canola varieties or hybrids or other non-tolerant crops will result in severe crop injury or death of the crop.

Apply WinField Glufosinate 150 from the cotyledon stage up until, but prior to, the early bolting stage of Canola.

Refer to weed/rate chart in this label for application rates and weeds controlled.

For control/suppression of late emerging weeds or if new weed germination or growth is present re-apply WinField Glufosinate 150.

Up to three applications of WinField Glufosinate 150, each at a maximum of 4 L/ha may be made. The third application must occur prior to the early bolting stage of Canola.

DO NOT apply more than a total of 12 L/ha per year.

Apply when the new weed growth is in the correct leaf stage and up until, but prior to, the bolting stage of Canola.

For best results, apply to emerged, young, actively growing weeds. Weeds that emerge after application will not be controlled.

WinField Glufosinate 150 will have an effect on weeds that are larger than the recommended leaf stage, however speed of activity and control may be reduced.

Slight discoloration of the Canola may be visible after application. This effect is temporary and will not influence crop growth, maturity or yield.

For application to glufosinate ammonium and glyphosate tolerant canola varieties or hybrids (example: canola varieties or hybrids labelled with LibertyLink® and Roundup Ready® or TruFlex™ or Optimum® Gly): WinField Glufosinate 150 should be applied in a sequential program with glyphosate for effective weed control. Tank-mixing WinField Glufosinate 150 with glyphosate may result in reduced control on certain weed species.

WinField Glufosinate 150 may also be applied to glufosinate ammonium tolerant Canola lines or



varieties grown for seed production.

#### FOR HYBRID SEED PRODUCTION

Two applications are required to remove the segregating wild type plants. The first application should occur when the Canola is in the 2-4 leaf stage, the second application when the Canola plants are in the 4-6 leaf stage and the third application, if necessary, may be applied to the Canola up until, but prior to, the bolting stage. All applications of WinField Glufosinate 150 for hybrid seed production should be made at 3.33 - 4 L/ha.

#### USE OF CORN SEPARATOR ROWS IN HYBRID CANOLA SEED PRODUCTION

WinField Glufosinate 150 is registered for use on glufosinate ammonium tolerant Corn varieties or hybrids when used as separator rows [example: varieties or hybrids labelled with Liberty Link®] in hybrid Canola seed production.

Corn should be seeded at 20,000 – 30,000 plants/ha.

Row spacing for glufosinate ammonium tolerant Corn should be 18-23 cm.

NOTE: Corn must be destroyed and not used for food or feed.

Follow use instructions for canola and general instructions in this label.

#### SOYBEAN

WinField Glufosinate 150 is registered for aerial and ground application to glufosinate ammonium tolerant Soybean varieties [example: varieties labeled with LibertyLink®].

Application of WinField Glufosinate 150 to non-tolerant Soybean varieties or other non-tolerant crops will result in severe crop injury or death of the crop.

Apply WinField Glufosinate 150 at 2 L to 3.33 L/ha from the cotyledon to the flowering stage of the crop.

A second application of WinField Glufosinate 150 can be made to Soybeans treated initially with up to 3.33 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 maximum leaf stage of the crop.

Do not apply beyond the flowering stage of Soybeans.

Do not apply more than a total of 6.67 L/ha in one season.

#### SUSCEPTIBLE WEEDS:

WinField Glufosinate 150 has an effect on all weeds and crops except for those crops which are developed to be tolerant to applications of glufosinate ammonium. The following weeds are susceptible to application of WinField Glufosinate 150.

Best control will be obtained when WinField Glufosinate 150 is applied in the recommended leaf stages.

WEED	RECOMMENDED WEED LEAF STAGE								RATE
	1	2	3	4	5	6	7	8	
									1.33 L/ha
Cow Cockle	-----								
Green Foxtail	-----								Maximum 3 tillers

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WEED	RECOMMENDED WEED LEAF STAGE								RATE
	1	2	3	4	5	6	7	8	
									2 L/ha
Barnyard Grass	-----								

WEED	RECOMMENDED WEED LEAF STAGE								RATE 2.67 L/ha
	1	2	3	4	5	6	7	8	

[illegible]

WEED	RECOMMENDED WEED LEAF STAGE								RATE 3.33 L/ha
	1	2	3	4	5	6	7	8	

Heavy Populations		
Canada Thistle <sup>1</sup>	Up to 10 cm height	
Quackgrass <sup>1</sup>	-----	
Volunteer Barley <sup>2</sup>	-----	Maximum 2 tillers
Volunteer Wheat	-----	Maximum 2 tillers
Wild Buckwheat	-----	

WEED	RECOMMENDED WEED LEAF STAGE								RATE 4 L/ha
	1	2	3	4	5	6	7	8	
Canada Thistle <sup>4</sup>	Up to 10 cm height								
Jimsonweed <sup>5</sup>	-----								
Quackgrass <sup>6</sup>	-----								
Japanese Brome <sup>7</sup>	-----  up to emergence of 1 <sup>st</sup> tiller								
Downy Brome <sup>7</sup>	-----  up to emergence of 1 <sup>st</sup> tiller								

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NOTES: 1 Top Growth Suppression Only

2 Suppression Only

3 Improved Top Growth Control

4 Better Top Growth Suppression

5 Improved Control

6 Season Long Control for Heavy Populations

7 Spring-germinated Brome Only; best results are obtained after a pre-seed or burn-down application with a glyphosate herbicide.

#### TANK MIXES

Do not tank mix WinField Glufosinate 150 with herbicides, fertilizers or chemical additives unless recommended on this label.

When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

Tank mix partners may have additional restrictions for leaf staging.

For enhanced activity WinField Glufosinate 150 may be tank mixed with the following products:

## CANOLA

Tank Mix Product	Rate	Directions for Use
Centurion® or Select®	63 mL/ha	For control of Volunteer Barley and Wild Oats, apply WinField Glufosinate 150 at a rate of 2.67 – 4.0 L/ha plus Centurion® or Select® at 63 mL/ha with adjuvant as recommended on the Centurion® or Select® label. Apply when the weeds are in the 1-4 leaf stage with a maximum of 2 tillers.
Centurion® or Select®	190 mL/ha	For control of weed species listed on the WinField Glufosinate 150 and Centurion or Select labels plus foxtail barley, spring-germinated Japanese and downy brome, apply WinField Glufosinate 150 at a rate of 3.33 to 4.0 L/ha in tank mixture with Centurion® or Select® at 190 mL/ha and adjuvant as recommended on the Centurion or Select label.  Apply when the weeds are at growth stages listed on the WinField Glufosinate 150, Centurion® and Select® labels, foxtail barley is at the 1-4 leaf stage with a maximum of 2 tillers and spring-germinated Japanese and downy brome are at the 1 to 6-leaf up to the emergence of the 1st tiller stage.
Facet® L + Merge®	0.28 L/ha + 0.5 – 1.0 L/ha	For enhanced and more consistent control of cleavers, apply WinField Glufosinate 150 at a rate of 3.33 L/ha plus Facet® L at 0.28 L/ha. Apply in 100 L/ha of water with Merge® Adjuvant at a rate of 0.5 to 1 L/ha. Application should be made from the 2 to 6 true leaf stage of the canola crop.
Facet® L + Centurion® + Amigo® or Merge®	0.28 L/ha + 63 mL/ha + 0.5 L/ha	For enhanced and more consistent control of cleavers and annual grasses, apply WinField Glufosinate 150 at a rate of 3.33 L/ha plus Facet® L at 0.28 L/ha plus Centurion® at 63 mL/ha. Apply in 100 L/ha of water with Amigo® or Merge® Adjuvant at 0.5 L/ha. Application should be made from the 2 to 6 true leaf stage of the canola crop.

## DESICCATION USE

WinField Glufosinate 150 may be applied for desiccation, by ground or air, to Alfalfa (grown for seed).

WinField Glufosinate 150 will also desiccate weeds, which are present in the field at time of application (Wild Buckwheat may not be completely desiccated).

Desiccation of crops and weeds will be best when environmental conditions are favourable (warm temperatures, good moisture conditions, high humidity).

Crop	Rate	Directions for Use
Alfalfa (grown for seed)	2.7 L/ha	Apply WinField Glufosinate 150 at 50-75% pod turn (brown) stage. Do NOT apply more than once per year.
Note: Do NOT tank mix WinField Glufosinate 150 with pesticides, fertilizers or chemical additives unless recommended on this label.		

## RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, WinField Glufosinate 150 is a Group 10 herbicide. Any weed population may contain or develop plants naturally resistant to WinField Glufosinate 150 and other Group 10 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of WinField Glufosinate 150 or other Group 10 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates, precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area, if possible, by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact WinField United Canada, ULC at 1-888-975-4769.

## APPLICATION PRECAUTIONS

Weed control may be reduced when heavy dew, fog or mist is present at the time of application. Uniform, thorough spray coverage is important to achieve consistent weed control.

Crop injury may result if WinField Glufosinate 150 is applied to a crop stressed by severe weather conditions, frost, drought, water-saturated soil, low fertility, disease or insect damage. WinField Glufosinate 150 is a non-selective herbicide and has the potential to desiccate,

defoliate or kill all green plants. Avoid contact with other desirable plants or crops by direct application or from spray drifts as severe damage may occur.

Application of WinField Glufosinate 150 to non-tolerant Canola or Soybean varieties, hybrids or other non-tolerant crops will result in severe crop injury or death of the crops.

To assure crop safety and optimal herbicide performance, only use WinField Glufosinate 150 on glufosinate ammonium tolerant (i.e., LibertyLink) Canola or Soybean grown from certified seed.

#### PLANT-BACK INTERVALS

No plant-back interval is required for field corn, canola and soybeans, dry common beans (not grown for seed), alfalfa, carrot, lettuce, onion and potato.

70 days for buckwheat, barley, millet, oats, rye, sorghum, triticale, wheat, other root and leafy vegetables.

120 days for all other crops.

#### RAINFALL PERIOD

If rainfall occurs within 4 hours of application, effectiveness may be reduced.

#### GENERAL APPLICATION INSTRUCTIONS

The speed of action of WinField Glufosinate 150 is influenced by environmental factors. At cool temperatures (below 10° C), poor moisture and low humidity, the speed of action may be reduced. Generally, visual symptoms appear 2-4 days after application.

For best results, apply to emerged, young, actively growing weeds. Weeds that emerge after application will not be controlled.

WinField Glufosinate 150 will have an effect on weeds that are larger than the recommended leaf stage; however, the speed of activity and control may be reduced.

WinField Glufosinate 150 works primarily as a contact herbicide. Thorough coverage of the weeds to be controlled, or the crop to be desiccated, is essential.

When a rate range is given the higher rate should be utilized when the:

- weed or crop growth is dense;
- weeds are large and/or mature - *i.e.*, advanced leaf stages and plant height;
- environmental conditions are cool and dry.

Refer to the section on weeds controlled for details on rates and timing of application.

#### GROUND APPLICATION INSTRUCTIONS

Ensure that all circuits (pipes, booms etc.) have the correct WinField Glufosinate 150/water concentration before application is started.

Apply WinField Glufosinate 150 in a minimum of 110 L/ha of water, at a pressure of 275 kPa and at a ground speed of 6-8 kph. If check valves are used, apply at 310 kPa. 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. Refer to sections above for the correct rate and timing of application.

**For desiccation uses only**, where the crop canopy is dense or weed growth is heavy, achieve better spray coverage with higher spray volumes. Under these conditions, apply WinField Glufosinate 150 in a minimum of 170-220 L/ha of water.

#### GROUND APPLICATION PRECAUTIONS

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

Do NOT apply if winds exceed 16 kph when using open boom sprayers for ground application.

Do NOT apply if winds exceed 25 kph when using hooded sprayer for ground application.

Do not use flood jet nozzles, controlled droplet application equipment or air-assisted spray equipment.

#### AERIAL APPLICATION PRECAUTIONS

Aerial application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) coarse classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

#### AERIAL APPLICATION INSTRUCTIONS

Apply only by fixed-wing or rotary aircraft equipment, which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

When applying WinField Glufosinate 150 by aircraft, uniform spray coverage is essential.

Applicators are required to use the correct combination of spray nozzle tips, nozzle placement and spray pressures which will provide a coarse droplet size distribution with a volume mean diameter greater than 350 microns. Do not use raindrop nozzles.

#### USE PRECAUTIONS:

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

## AERIAL APPLICATION OPERATOR PRECAUTIONS

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

## PRODUCT SPECIFIC PRECAUTIONS

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-888-975-4769 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

Post-emergent Use in Glufosinate Ammonium Tolerant Canola and Soybean Water Volume: Apply WinField Glufosinate 150 in a minimum of 55 L/ha of water only.

Desiccation Use Only Water Volume Range: If the crop canopy is dense or weed growth is heavy, achieve better spray coverage with higher spray volumes. Under these conditions, if using aerial application, apply WinField Glufosinate 150 in a minimum of 33-55 L/ha of water.

## SPRAY BUFFER ZONES

A spray buffer zone is NOT required for:

- Uses with hand-held application equipment permitted on this label
- Low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit, or foliage.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).



Application method	Crop		Spray buffer zones (metres) required for the protection of:		
			Freshwater habitat of depths:		Terrestrial Habitat
			Less than 1 m	Greater than 1 m	
Field sprayer	Alfalfa, Canola, Corn, Soybean		1	0	1
Aerial	Alfalfa, soybean (fixed wing and rotary)		1	0	20
	Canola	Fixed wing	1	0	35
		Rotary wing	1	0	30
<p>When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.</p> <p>The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.</p>					

## MIXING DIRECTIONS

WinField Glufosinate 150 must be applied with properly calibrated, clean equipment.

WinField Glufosinate 150 is specially formulated to mix readily in water.

Prior to adding WinField Glufosinate 150 to the spray tank, ensure that the spray tank is thoroughly clean (see section on Sprayer Cleanup).

1. Fill the tank three-quarters full with clean water.
2. Add the correct amount of WinField Glufosinate 150.
3. Add the remaining amount of water, begin agitation, and spray out immediately.

## TANK-MIXES

For use on Glufosinate Ammonium Tolerant Canola only:

When tank mixing WinField Glufosinate 150 and Centurion® or Select®, always add Amigo® adjuvant to the tank first, then add WinField Glufosinate 150 to the tank followed by the Centurion® or Select®.

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

1. Thoroughly clean the sprayer by flushing the system with water containing detergent (see section on Sprayer Cleanup).
2. Fill clean spray tank half full with clean water. Start agitation system.
3. Add the correct amount of Amigo®. Continue to agitate until Amigo® is thoroughly mixed.
4. STOP agitation. Add the required amount of WinField Glufosinate 150 to the spray tank. Start agitation system.
5. Add the correct amount of Centurion® or Select® along with the remaining amount of water necessary to fill the spray tank.
6. Continue to agitate or run the by-pass system and spray out immediately.

7. After any break in the spraying operation, agitate thoroughly before spraying again. Check inside the tank to ensure that sprayer agitation is sufficient to remix the spray materials. Do not allow the mixture to sit overnight.
8. If an oil film starts to build up in the tank, drain it and clean tank with strong detergent solution.
9. Immediately after use, thoroughly clean the sprayer by flushing the system with water containing detergent (see section on Sprayer Cleanup).

#### SPRAYER CLEANUP

Before and after using WinField Glufosinate 150 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

CANOLA: Grain and meal from treated crop can be fed to livestock. DO NOT graze the treated crop or cut for hay; sufficient data are not available to support such use.

CORN (used as separator rows in Hybrid Canola Seed Production): DO NOT feed treated crop to livestock; sufficient data are not available to support such use.

SOYBEAN: DO NOT graze the treated fields within 20 days of application.

#### PRE-HARVEST INTERVALS (PHI)

CANOLA: When WinField Glufosinate 150 is tank mixed with Centurion or Select, observe a PHI of 60 days from the date of treatment (or last treatment when a second application has been made). When WinField Glufosinate 150 is tank mixed with Facet L, observe a PHI of 60 days from the date of treatment.

SOYBEAN: Do not apply within 70 days of harvesting soybean seed.

#### NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.