



## Registered Crops & Use Rates

Crop	Use Pattern	Rate/Acre
<b>COTTON</b> OPTION 1 Up to 2 applications	<b>Burndown</b> (Prior to planting or prior to crop emergence)	<b>1st application</b> 30.0 - 43.0 fl oz/Acre (0.55 - 0.79 lb ai/Acre)
	<b>and/or</b> <b>In-Season</b> (Post emergent to the crop)	<b>2nd application</b> 22.0 - 29.0 fl oz/Acre (0.40 - 0.53 lb ai/Acre)
<b>COTTON</b> OPTION 2 Up to 3 applications	<b>Burndown</b> (Prior to planting or prior to crop emergence)	<b>1st application</b> 22.0 - 29.0 fl oz/Acre (0.40 - 0.53 lb ai/Acre)
	<b>and/or</b> <b>In-Season</b> (Post emergent to the crop)	<b>2nd application</b> 22.0 - 29.0 fl oz/Acre (0.40 - 0.53 lb ai/Acre)
		<b>3rd application</b> 22.0 - 29.0 fl oz/Acre (0.40 - 0.53 lb ai/Acre)
<b>CORN</b> Field, Silage, Sweet	<b>Burndown</b> (Prior to planting or prior to crop emergence)	29.0 - 36.0 fl oz/Acre
<b>CORN</b> Field, Silage	<b>In-Season</b> to LibertyLink or Glufosinate tolerant corn only. (Post emergent to the crop)	22.0 fl oz/Acre A second in-season application may be needed to control weeds that have not yet emerged at time of application.
<b>CANOLA</b>	<b>Burndown</b> (Prior to planting or prior to crop emergence)	29.0 - 36.0 fl oz/Acre
	<b>and/or</b> <b>In-Season</b> to LibertyLink or Glufosinate tolerant canola only. (Post emergent to the crop)	22.0 fl oz/Acre A second in-season application may be needed to control weeds that have not yet emerged at time of application.
<b>SOYBEAN</b>	<b>Burndown</b> (Prior to planting or prior to crop emergence)	<b>1st application</b> 29.0 - 36.0 fl oz/Acre (0.53 - 0.66 lb ai/Acre)
	<b>and/or</b> <b>In-Season</b> to LibertyLink or Glufosinate tolerant soybeans only. (Post emergent to the crop)	<b>2nd application</b> 22.0 - 29.0 fl oz/Acre (0.40 - 0.53 lb ai/Acre)
<b>SUGAR BEETS</b>	<b>Burndown</b> (Prior to planting or prior to crop emergence)	29.0 - 36.0 fl oz/Acre

\*Should environmental conditions prevent a timely herbicide application resulting in large weeds or heavy infestations, a single application of up to 43 fl oz per acre of Interline herbicide may be made to cotton. The yearly total under this scenario may not exceed 72 fl oz per acre including all application timings.

Contact your local UPI sales representative or distributor, call 1-800-438-6071 or visit [www.upi-usa.com](http://www.upi-usa.com) for more information.



Always read and follow label directions and precautions. LibertyLink is a trademark of Bayer. Bollgard II and Xtendflex are trademarks of Monsanto Technologies. Interline® and UPI logo are trademarks of United Phosphorus, Inc. ©October, 2016. UPI 630 Freedom Business Center, King of Prussia, PA 19406. Soybean version.

# ROW CROPS

## New Interline® herbicide for use on Glufosinate or LibertyLink crops.

- Use on *glufosinate* tolerant crops
- Quality SL formulation
- Excellent efficacy
- **CAUTION** signal word
- HRAC Class 10

### Interline Herbicide

Interline® herbicide is a non-selective herbicide for the control of existing weeds, including some of the most challenging *glyphosate* resistant weeds now invading row crops – pigweed, waterhemp, and ragweed. Utilizing a unique mode of action, Interline inhibits glutamine production in the weeds which leads to a breakdown in photosynthesis.

Interline can be used as a burndown treatment in key labeled crops, but its showcase application is as an over-the-top treatment for weed control in *glufosinate* tolerant crops – including LibertyLink® varieties and Bollgard II® Xtendflex™ cotton.

Past cropping seasons may have proved difficult to get a supply of Liberty or *glufosinate* for over-the-top use. But now, with UPL's new, state-of-the-art manufacturing facility, we are committed to bringing the quality volume you need to the market. Helping you produce, and yield a quality crop.

### Key Labeled Crops

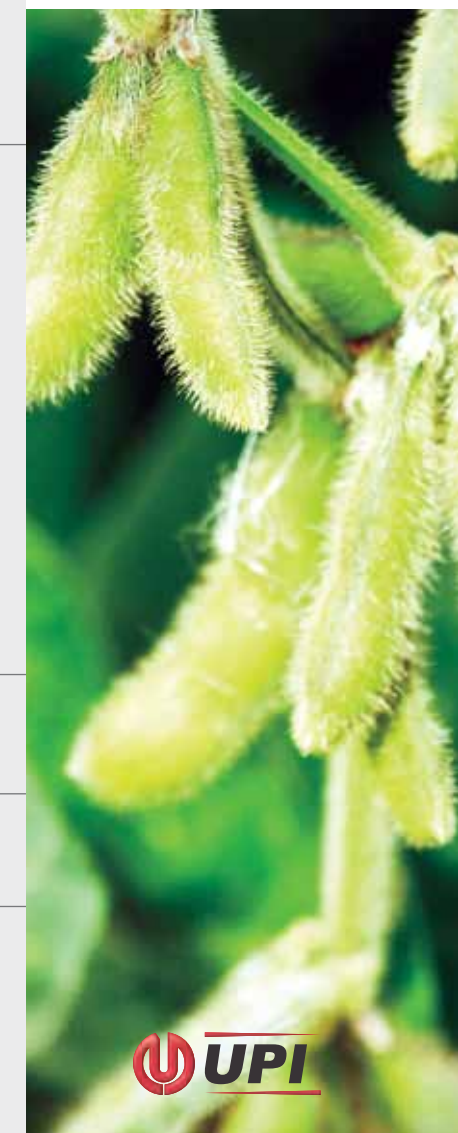
- Cotton
- Corn
- Canola
- Fallow field
- Soybean
- Sugar beets

### Formulation

Soluble Liquid (SL) Formulation

### Pack Size

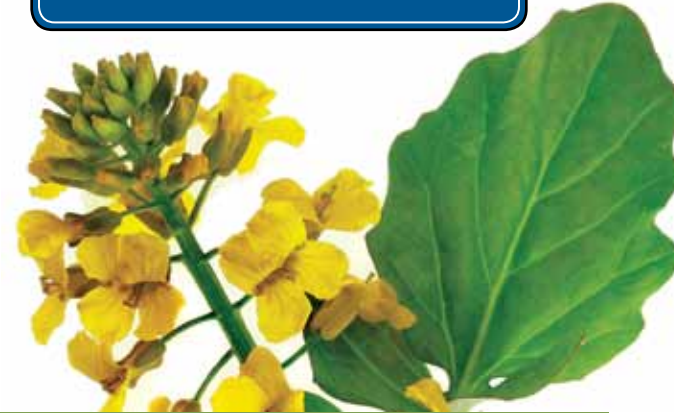
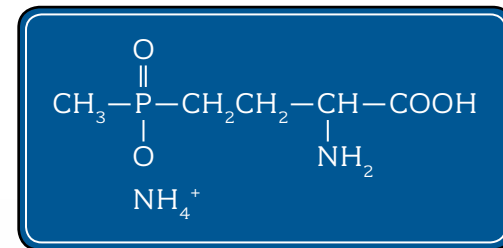
- 2 x 2.5 gallon
- 250 gallon tote





## Formulation Characteristics

• Active ingredient	<i>Glufosinate ammonium</i>
• Lbs AI/Gallon	2.34 (280 grams/liter)
• Formulation type	SL (aqueous solution)
• Signal word	CAUTION
• DOT	Non-regulated
• pH	4 to 9
• Rainfastness	4 hours after application
• Appearance	Magenta Red to Reddish
• Density	1.15 gm/ml @ 20°C
• Weight per gallon	9.6 lb (without container)
• Odor	Mild ammonia-like smell
• Flammability	Aqueous liquid >200°F



### Why Does Interline Have a “Caution” Label?

- UPL developed our own *glufosinate* technical.
- UPL does not source technical from a third party.
- UPL completed product chemistry and tox data packages on UPL developed *glufosinate* technical.
- UPL *glufosinate* technical is a pure technical.
- Product chemistry and tox data placed on UPL *glufosinate* technical produced the CAUTION category.

## Key Broadleaf Weeds

- Amaranth, Palmer<sup>2</sup>
- Lambsquarters, common<sup>2,4</sup>
- Maretail
- Morningglory<sup>2</sup>
- Mustard, wild
- Nightshade (black, eastern black, hairy)
- Pigweed<sup>2</sup>
- Ragweed (common, giant)
- Sida, prickly
- Smartweed, Pennsylvania
- Soybeans, volunteer<sup>1</sup>
- Thistle, Russian<sup>3</sup>
- Velvetleaf<sup>2,4</sup>
- Waterhemp, common<sup>2</sup>
- Waterhemp, tall<sup>2</sup>

Please see label for full list of broadleaf weeds.

## Key Grass Weeds

- Barnyardgrass
- Bluegrass, annual
- Corn, volunteer<sup>1</sup>
- Crabgrass<sup>2</sup>
- Foxtail<sup>2</sup>
- Goosegrass<sup>3</sup>
- Johnsongrass, seedling
- Shattercane

Please see label for full list of grass weeds.

<sup>1</sup>Volunteer LibertyLink or *glufosinate* tolerant crops from the previous season will not be controlled.

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

<sup>3</sup>May require sequential applications for control.

<sup>4</sup>For optimal control, make applications between dawn and 2 hours before sunset.

<sup>1</sup>Volunteer LibertyLink or *glufosinate* tolerant crops from the previous season will not be controlled. A timely cultivation 7 to 10 days after an application and/or retreatment 10 to 21 days after the first application will aid in controlling dense clumps of volunteer corn.

<sup>2</sup>For best control treat prior to tiller initiation.

<sup>3</sup>A sequential application may be necessary for control.

## General Application Information

Apply to emerged, young, actively growing weeds in broadcast, banded, directed spray, or spot treatments. Uniform, thorough spray coverage is necessary to achieve consistent weed control. Avoid direct spray, drift or mist to desirable vegetation, green bark, stems, or foliage as injury may occur. Do not apply aerially or through irrigation systems. Please read label in its entirety before using Interline herbicide.

## Application Timing

- Warm temperatures, high humidity, and bright sunlight **improves the performance of Interline 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 use rate.
- Stressed conditions also include prior treatments of other contact or systemic herbicides - do not retreat these weeds with Interline herbicide until sufficient re-growth has occurred.
- To maximize weed control, do not cultivate 5 days before, to 7 days after an application.
- Research indicates better weed control will be achieved if Interline herbicide is applied during the day.
  - Between mid-morning and 2 hours before sunset.

## Speed of Activity & Symptoms

- Injury symptoms 3 to 5 days after treatment. Longer in cooler temperatures (7-14 days).
- Symptoms begin with chlorosis and wilting, followed by necrosis and death.
- Perennial weeds are difficult to control due to limited root translocation and uptake.

### IMPORTANT CROP SAFETY INFORMATION

**Burndown treatments:** For row crop applications in canola, corn, cotton, soybean or sugar beets, INTERLINE herbicide may be applied to any conventional or transgenic variety as a burndown treatment prior to planting or prior to crop emergence.

**Post emergent treatments:** Post emergence row crop applications of INTERLINE herbicide may be made only to crops tolerant to glufosinate, the active ingredient in this product (such as LibertyLink® crops). The basis of selectivity of INTERLINE herbicide in glufosinate-resistant crops is the presence of a gene tolerant to glufosinate.

**Crops not containing this glufosinate tolerant gene will not be tolerant to INTERLINE 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 the product.**

Post emergent applications of INTERLINE herbicide may be applied to conventional or other transgenic cotton not tolerant to the active ingredient in INTERLINE herbicide using a hooded sprayer.

