Preemergence Herbicide with Burndown for Glyphosate - and ALS-Resistant Weeds

Product Characteristics

- Helps increase yield potential by providing cleaner fields
- Facilitates more timely Roundup PowerMAX® applications in Roundup Ready® soybeans
- Reduces the selection pressure for glyphosate- and ALS-tolerant weed biotypes
- Provides excellent crop safety
- Controls both small- and large-seeded broadleaf weeds
- May be applied with other crop protection chemicals and liquid fertilizers
- Extends weed spectrum and burndown when weeds have already emerged when added to Roundup PowerMAX and 2,4-D LVE

Soil–Applied Herbicides in Soybeans

Soybean Yield Loss (Percent of weed)
Usage Recommendations

**Full Use Rate**
(needed for glyphosate-resistant weeds for longer residual control)

<table>
<thead>
<tr>
<th>Broadcast Rate (oz/A)</th>
<th>Coarse Soil Texture</th>
<th>Medium Soil Texture</th>
<th>Fine Soil Texture</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Organic Matter</td>
<td>Loamy Sand, Sandy Loam</td>
<td>Loam, Silt Loam, Silt, Sandy Clay Loam</td>
<td>Silty Clay Loam, Clay Loam, Clay</td>
</tr>
<tr>
<td>0.5 – 2.0%</td>
<td>5.0 – 6.0 oz/A</td>
<td>6.5 – 7.5 oz/A</td>
<td>7.0 – 8.0 oz/A</td>
</tr>
<tr>
<td>2.0 – 4.0%</td>
<td>6.0 – 7.0 oz/A</td>
<td>7.0 – 8.8 oz/A</td>
<td>8.0 – 9.6 oz/A</td>
</tr>
</tbody>
</table>

Apply Authority XL according to Rate Tables for types of application and specific geographic areas.

**Reduced Rates for GMO Soybeans**
(Roundup Ready®, LibertyLink® etc.)

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</tr>
<tr>
<td>0.5 – 2.0%</td>
<td>4.0 oz/A</td>
<td>4.0 oz/A</td>
<td>4.0 – 5.0 oz/A</td>
</tr>
<tr>
<td>2.0 – 4.0%</td>
<td>4.0 oz/A</td>
<td>4.8 oz/A</td>
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Use rates in Reduced Rate Table are to be used in conjunction with a planned POST herbicide program; Authority XL at these reduced rates will provide early season control or suppression to reduce early season weed competition.

**Weed Spectrum**

**Controls**
- Carpetweed
- Chickweed**
- Cocklebur*
- Copperleaf, hophornbeam
- Copperleaf, Virginia
- Florida beggarweed
- Jimsonweed
- Kochia
- Lambsquarters
- Mallow, Venice
- Marestail
- Morningglory
  - Annual
  - Ivyleaf
  - Entireleaf
  - Pitted*
  - Smallflower
  - Tall
- Mustard, wild
- Nutseed, purple
- Nutseed, yellow
- Pigweed
- Palmer amaranth
- Redroot
- Smooth
- Spiny amaranth
- Poinsettia, wild
- Prickly sida (teaweed)
- Purslane, common
- Ragweed, common
- Ragweed, giant*
- Russian thistle
- Senna, coffee
- Smartweed (annual)
- Spurge, spotted
- Sunflower, wild
- Velvetleaf
- Waterhemp

Control of emerged weeds requires a burndown tank mix such as 2, 4-D or Roundup.

* Weed species which can germinate deep in the soil, such as pitted morningglory, cocklebur and giant ragweed or other weeds, such as nutseed, which may emerge at various times during the growing season, may require a cultivation or a follow-up application of postemergence herbicides.

** To deliver control the addition of Roundup PowerMAX or Express® are recommended.

**Suppresses**
- Barnyardgrass
- Burcucumber
- Crabgrass
- Foxtail, species
- Goosegrass
- Johnsongrass, seedling
- Mexicanweed
- Panicum, Texas and fall
- Sicklepod
- Signalgrass, broadleaf

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