Emerging Technologies from Syngenta

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Classification: PL

Post-Emergence Control With Enhanced Residual in Glyphosate-Tolerant Corn



Acuron^G

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Acuron GT: Single Product Component Rates

Se Rate	BIR (Bicyclopyrone)	Callisto ® (mesotrione)	Dual Magnum® (S-metolachlor)	Glyphosate**
3.75 pt/A	20 g ai/A*	3.0 fl oz/A	1.0 pt/A	26.7 fl oz/A**

Application Flexibility

- <u>Post-emergence</u> up to 30"-tall corn
- Add 1 qt/A Atrazine up to 12"-tall corn*

Similar formulation technology as Halex[®] GT

- Encapsulated Dual Magnum for formulation integrity & long-term stability
- Proven crop safety when used according to the label

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* Bicyclopyrone (BIR) at 20 g ai/A is approximately the equivalent amount of BIR contained in Acuron at 3 qt/A or Acuron Flexi at 2.25 qt/A

** equivalent to 26.7 oz of a 4.5-pound glyphosate acid per gallon product.

*The glyphosate fl oz/A rate is based upon a 4.5 lb ae/gallon such as a formulation like Roundup PowerMax®.

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Acuron[®]GT Post-Emergence-Plus-Residual Weed Control in Glyphosate-Tolerant Corn

Acuron® GT herbicide: Premix of the bicyclopyrone (BIR) plus mesotrione, S-metolachlor, and glyphosate

Use rate and tank mix options

3.75 pt/A + 1 qt/A Atrazine + NIS @ 0.25% v/v + AMS @ 8.5 to 17 lb/100 lbs

Benefits:

- BIR addition provides enhanced control of large-seeded broadleaf weeds like morningglory (pre and post-activity)
 - Improved pigweed control
- Improved speed of activity postemergence burndown activity on grasses

Application Flexibility

- Post-emergence up to 30"-tall in height or no later than the 8-leaf stage
- 12"-tall corn when adding Atrazine

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Acuron GT: Replant and Rotational Crops

Сгор		Replant / Rotational Interval	
Field corn Seed corn	Popcorn Sweet corn	Anytime	
Small grains including wheat ba	arley, rye and oats	4 ½ months	
Alfalfa (see rotational crop restrictions below) Cotton Peanuts	Potato Rice Soybeans Sorghum (all types)	10 months	
All other rotational crops		18 months	

ROTATIONAL CROP USE PRECAUTIONS

If applied after June 30th, rotating to crops other than corn (all types) may result in crop injury

ROTATIONAL CROP USE RESTRICTIONS

The 10-month rotation to alfalfa applies only if the soil pH is 6.0 or greater and a minimum of 18" of rainfall or equivalent irrigation has been received between application and planting of alfalfa. Otherwise, the alfalfa rotational interval is 18 months.

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Acuron GT: Advanced Technology. Enhanced Control.





Acuron[®] GT 3.75 pt/A + 1 qt/A Atrazine + (POST); May 6th, 0 DAT



Acuron[®] GT 3.75 pt/A + 1 qt/A Atrazine (POST); May 16th, 10 DAT

Classification: PUBLIC.

Source: Start, LA, KDB

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Acuron GT: Advanced Technology. Enhanced Control.





Growers field day of spray Acuron GT May 7th, 0 DAT



Acuron[®] GT 3.75 pt/A + 1 qt/A Atrazine; June 1st, 21 DAT

Classification: PUBLIC.

Source: Rayville, LA, KDB

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Acuron GT: Advanced Technology. Enhanced Control.





Competitor

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Halex GT[®] 3.6 pt/A + 1 qt/A Atrazine (POST); May 6th App – Pic 6-15, 5 WAT Acuron[®] GT 3.75 pt/A + 1 qt/A Atrazine (POST); May 6th App – Pic 6-15, 5 WAT

Source: Start, LA, KDB

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Tendovo[™]

Classification: PUBLIC

Keith Burnell, Syngenta

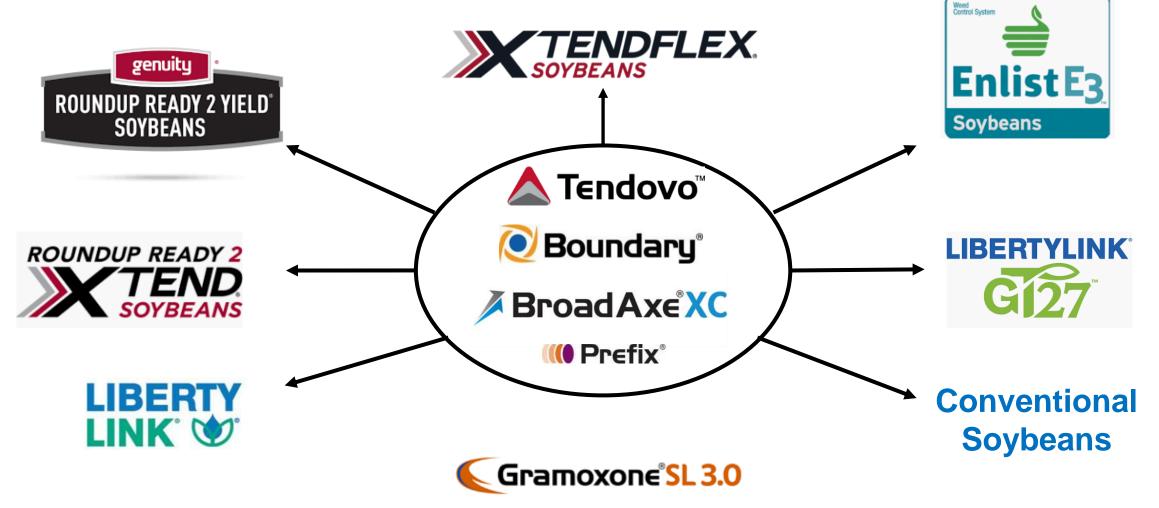


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Syngenta Residual Preemergence Solutions for Soybeans

 $\sqrt{\text{Solid agronomic foundation across all trait platforms}} \sqrt{\text{Broad spectrum and long residual activity against target weeds}} \sqrt{\text{Multiple SOA for resistance management}}$



Add Gramoxone SL 3.0 to preemergence applications for fast acting start clean burndown

Gramoxone SL 3.0 is a Restricted Use Pesticide

TENDOVO: Use Rates and Recommendations

- TENDOVO[®] provides broad spectrum preemergence weed control of small and large seeded broadleaf weeds as well as annual grasses.
 - Controls over 70 weed species
- Premix designed to keep fields cleaner, longer w/three active ingredients and sites of action.
 - Active Ingredients: S-metolachlor, metribuzin, and cloransulam
 - Sites of Action: Groups 15 + 5 + 2
 - Rate range 1.5 to 2.1 qt/A
 - Our area = 1.75 to 2.1 qt/A rate
- Provides flexible preemergence option across various <u>trait</u> platforms and <u>tillage</u> systems.
 - Roundup Ready[®], LibertyLink[®], Non-GMO, Enlist[®] E3, Roundup Ready 2 Xtend[®], Xtendflex
 - Conventional tillage, no-tillage, and reduced-tillage systems
- Provides excellent crop safety across soil types and geographies.



Untreated

IL - 2020 - Syngenta Trial - 35 DAE - USNH0H0602020 - HSM052C4-2020US

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TENDOVO™ 2.1 qt/a

TENDOVO: Use Rates and Recommendations

- Robust rates for optimum residual weed control and yield protection
- Flexibility across soil types and geographies
- Use higher end of the rate range when:
 - Field has a history of severe weed pressure
 - Making early preplant applications
 - Organic matter content is $\geq 3\%$
 - Heavy crop residue are present on the soil surface
- Add burndown herbicide(s) to TENDOVO™ when weeds are present at the time of application.

Equivalent Product Rate by Tendovo Use Rate

Soil Classification Range		Dual [®] Magnum		Metribuzin 75DF		FirstRate [®]	
		Min	Max	Min	Мах	Min	Max
	quart/acre	pt	/a		0Z	/a	
Coarse	1.2-1.5	1.1	1.3	4.1	5.1	0.37	0.46
Medium	1.5-2.1	1.3	<mark>1.9</mark>	5.1	<mark>7.0</mark>	0.46	<mark>0.65</mark>
Fine	1.75-2.35	<mark>1.6</mark>	2.2	<mark>6.0</mark>	8.1	<mark>0.53</mark>	0.73

Soil Classifications				
Coarse	Medium	Fine		
Loamy sand	Loam	Clay		
Sand	Silt	Clay Loam		
Sandy Loam	Silt Loam	Silty Clay		
	Sandy Clay	Silty Clay Loam		
	Sandy Clay Loam	Silty Clay		

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TENDOVO[®]: A NEW RESIDUAL HERBICDE FOR BROAD SPECTRUM WEED CONTROL IN SOYBEANS

- Broad-spectrum control of small-seeded broadleaf weeds, large-seeded broadleaf weeds, and grasses
 - Improved large seeded broadleaf weed control compared to Boundary including sicklepod, hemp sesbania, prickly sida, and morningglory
 - Improved grass control due to enhanced S-metolachlor rates
 - Palmer amaranth control you can count on

-

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Excellent crop safety when compared to competitive standards (Zidua brands, Fierce brands, Anthem brands, etc)



TENDOVO: Use Rates and Recommendations

Tendovo 2.1 qt/A 33 DAT



Boundary 1.5 pt/A 33 DAT



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Legal

Product performance assumes disease presence.

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Some seed treatment offers are separately registered products applied to the seed as a combined slurry. **Always read individual product labels and treater instructions before combining and applying component products.** Orondis Gold may be sold as a formulated premix or as a combination of separately registered products: Orondis Gold 200 and Orondis Gold B.

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