



## Guidelines for Herbicide Use with AMVAC Granular Soil Insecticides

### Understanding the difference between systemic and non-systemic soil-applied insecticides

Corn production practices vary from field to field, and AMVAC has a full line-up of granular soil insecticides to meet the specific growing conditions and needs for the acres you farm. AMVAC offers both systemic and non-systemic insecticides, so it is critical to understand the differences between these products when planning your soil insecticide program.

**AZTEC<sup>®</sup>, SmartChoice<sup>®</sup> and COUNTER<sup>®</sup>** brand insecticides belong to the organophosphate (OP) insecticide class of chemistry. In addition, both AZTEC and SmartChoice include a second active ingredient—pyrethroid—for a dual mode of action to control corn soil insects. The OP active ingredients in **both AZTEC and SmartChoice insecticides are non-systemic in corn.**

**The OP chemistry in COUNTER is unique in that it features systemic activity** that controls insects below ground; as well as insects in or on the corn plant during early season growth. Also, COUNTER is the only granular insecticide with the power to control major nematode pests in corn. Knowing which products are non-systemic versus systemic is very important in selecting preemergence and postemergence herbicide options for the specific AMVAC insecticide you apply.

As non-systemic insecticides, **AZTEC and SmartChoice insecticides are safe to use with soil-applied and postemergence corn herbicides** with no labeled restrictions.

However, because of its systemic nature within the corn plant, **COUNTER has the potential for interaction with certain herbicides** and does have labeled herbicide use restrictions in corn.

While it is important to manage your herbicide program carefully when using COUNTER, many herbicides may be safely applied without concern for interaction. Always read and follow the COUNTER 20G insecticide label before applying and refer to the use recommendations and labeled restrictions on soil-applied and postemergence corn herbicides.

### Potential Herbicide Interactions with Counter 20G At-Plant

The potential interaction of COUNTER with the acetolactate synthesis (ALS) inhibiting herbicide class has been well known for years. In addition, there are a few herbicides belonging to the protoporphyrinogen oxidase (PPO) inhibiting herbicide class which restrict use of COUNTER 20G in corn. More recently, interactions with some of the herbicides that belong to the hydroxyphenyl-pyruvate-dioxygenase (HPPD)

inhibiting herbicide class have been recorded. Not all herbicides in the HPPD class are restricted for postemergence applications to corn treated with COUNTER 20G. For example, **IMPACT<sup>®</sup> 2.8SC** herbicide (an HPPD inhibitor) from AMVAC does not have potential for interaction. **IMPACT may be safely applied following an at-plant application of COUNTER 20G** insecticide on corn.



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## GUIDELINES FOR HERBICIDE USE WITH COUNTER 20G INSECTICIDE

The following corn herbicides may be safely applied at specified timings in a program with Counter 20G insecticide:

Manufacturer	Corn Herbicide	Timing	Manufacturer	Corn Herbicide	Timing
<b>AMVAC</b>	IMPACT®	Post	<b>DuPont Crop Protection</b>	Breakfree ATZ®	EPP/PPI/Pre/Post
<b>Monsanto Company</b>	Degree®	EPP/PPI/Pre/Post		Cinch ATZ®	EPP/PPI/Pre/Post
	Degree Extra®	EPP/PPI/Pre/Post		Abundit™ Extra	Post
	Harness®	EPP/PPI/Pre/Post	<b>BASF Ag Products</b>	G-Max Lite™	PPI/Pre/Post
	Harness Extra®	EPP/PPI/Pre/Post		Guardman Max®	PPI/Pre/Post
	Warrant®	Post		Outlook®	PPI/Pre/Post
	Roundup PowerMAX®	Post		Prowl H2O®	Pre/Post
	Roundup WeatherMAX®	Post		Status®	Post
<b>Syngenta Crop Protection, Inc.</b>	AAtrex 4L®	EPP/PPI/Pre/Post		Clarity®	Pre/Post
	Princep 4L®	EPP/PPI/Pre		Marksman®	Pre/Post
	Bicep II® Magnum	EPP/PPI/Pre/Post	<b>Bayer CropScience</b>	Balance® Pro	EPP/PPI/Pre
	Bicep Lite II® Magnum	EPP/PPI/Pre/Post		Balance® Flexx	EPP/PPI/Pre/Post
	Dual II® Magnum	EPP/PPI/Pre/Post		Laudis®	Post
	Lumax®	PPI/Pre		Ignite®	Post
	Lexar®	PPI/Pre		Buctril 4EC®	Post
	Camix®	Pre	<b>FMC Corporation</b>	Aim®	Post
	TouchDown®	Post		Cadet®	Post
<b>Dow Agrosciences, LLC</b>	Keystone®	PPI/Pre/Post	<b>Valent USA</b>	Resource®	Post
	Fulltime®	PPI/Pre/Post			
	Durango®	Post			
	2,4-D®	Post			

The following corn herbicides\* have labeled restrictions at specified timings with Counter 20G insecticide:

Manufacturer	Corn Herbicide	Timing	Manufacturer	Corn Herbicide	Timing
<b>DuPont Crop Protection</b>	Accent® / Accent® Q	Post	<b>Dow Agrosciences, LLC</b>	Hornet®	Preplant/PRE/Post
	Basis®	PRE/post		Python®	Preplant/PRE
	Prequel®	Preplant/PRE		SureStart®	Preplant/PRE/Post
	Realm® Q	Post	<b>Bayer CropScience</b>	Capreno®	PRE/Post
	Require® Q	Preplant/PRE/Post		Corvus®	Preplant/PRE/Post
	Resolve® / Resolve® Q	Preplant/PRE/Post		Option®	Post
	Steadfast® / Steadfast® Q	Post	<b>BASF Ag Products</b>	Sharpen®	Preplant/PRE
	Stout®	Post		Verdict™	Preplant/PRE
<b>Monsanto Company</b>	TripleFLEX™	PRE/Post	<b>FMC Corporation</b>	Solstice™	Post
<b>Syngenta Crop Protection, Inc.</b>	Beacon®	Post	<b>Gowan Co., LLC</b>	Permit®	Post
	Northstar®	Post			
	Spirit®	Post			
	Callisto® / Callisto® Xtra	Post			
	Camix®	Post			
	Halex™ GT	Post			
	Lexar®	Post			
	Lumax®	Post			

\*Other herbicides not listed may have restrictions. Always read and follow label directions/restrictions. For more information about COUNTER 20G, and other AMVAC insecticides, contact your local agricultural chemical retailer or AMVAC representative at 1-888 GO AMVAC (1-888-462-6822) or visit [www.amvac-chemical.com](http://www.amvac-chemical.com).



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