



# 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®**, **SmartChoice®** and **COUNTER®** 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. **IMPACT® 2.8SC herbicide (an HPPD inhibitor) from AMVAC does not interact with any in-furrow soil insecticides and 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
AMVAC	IMPACT®	Post	BASF Ag Products	G-Max Lite™	EPP/PPI/Pre/Post
Monsanto Company	Degree® brands	EPP/PPI/Pre/Post	Guardsman Max®		EPP/PPI/Pre/Post
	Harness® brands	EPP/PPI/Pre/Post	Outlook®		EPP/PPI/Pre/Post
	Warrant®	Post	Prowl H <sub>2</sub> O®		EPP/PPI/Pre/Post
	Roundup® brands	Preplant/Post	Status®		Post
Syngenta Crop Protection, Inc.	AAtrex 4L®	EPP/PPI/Pre/Post	Clarity®		Pre/Post
	Acuron® brands	EPP/Pre	Marksman®		Pre/Post
	Bicep II® Magnum brands	EPP/PPI/Pre/Post	Zidua®		EPP/PPI/Pre/Post
	Dual II® Magnum	EPP/PPI/Pre/Post			
	Lumax®	EPP/Pre			
	Lexar®	EPP/Pre			
	Camix®	Preplant/Post			
Dow Agrosciences, LLC	TouchDown® brands	Preplant/Post	Bayer CropScience	Balance® Pro	EPP/PPI/Pre
	Keystone® brands	Preplant/Post	Balance® Flexx		EPP/PPI/Pre/Post
	FulTime® brands	Preplant/Post	DiFlexx® brands		Preplant/Pre/Post
	Durango®	Post	Laudis®		Post
	Resicore®	EPP/PPI/Pre	Liberty® 280		Preplant/Post
DuPont Crop Protection	Stinger®	Post	Bucril® 4EC		Post
	Breakfree® brands	EPP/PPI/Pre/Post	FMC Corporation	Aim®	Preplant/Post
	Cinch® brands	EPP/PPI/Pre/Post	Anthem® brands		EPP/Pre/Post
			Cadet®		Preplant/Post
		Valent USA	Fierce®	Preplant Burndown	
		Resource®		Post	
		Valor® SX		Preplant Burndown	

The following corn herbicides\* are restricted or not recommended at specified timings in a program with Counter 20G insecticide:

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

\*Other herbicides not listed above may have restrictions. Post applications of products containing glyphosate or glufosinate are labeled only on hybrids tolerant to these herbicides. 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).

