

# GUIDELINES FOR COUNTER® INSECTICIDE USE WITH HERBICIDES

## 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 and pyrethroid 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. 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.

These non-systemic insecticides, AZTEC and SmartChoice insecticides, don't interact negatively with other soil applied or postemergence corn herbicides.

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 corn herbicides may be applied prior to or following COUNTER at-planting with crop safety. Always read and follow the COUNTER Insecticide product label before applying. Refer to the use recommendations and labeled restrictions on soil-applied and postemergence corn herbicides.

## Potential Herbicide Interactions With COUNTER 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® Herbicide and other AMVAC herbicides containing the HPPD inhibitor found in Impact, do not interact with any in-furrow soil insecticides and may be safely applied following an at-plant application of COUNTER 20G Insecticide in corn.

See our entire line of products at [AMVAC.com](http://AMVAC.com)

## Guidelines for Herbicide Use With COUNTER 20G Insecticide

The following corn herbicides can be applied at timings listed below in a program with COUNTER 20G Insecticide:

Manufacturer	Corn Herbicide	Timing	Manufacturer	Corn Herbicide	Timing
AMVAC®	Impact®	POST	Bayer® CropScience	Balance® Pro	EPP/PPI/PRE
	ImpactZ®	POST		Balance® Flexx	EPP/PPI/PRE/POST
	IMPACT CORE™	POST		DiFlexx® brands	Preplant/PRE/POST
	SINATE™	POST		Laudis®	POST
Syngenta® Crop Protection, Inc.	AAtrex 4L®	EPP/PPI/PRE/POST		Buctril™ 4EC	POST
	Acuron® brands	EPP/PRE		Degree™ brands	EPP/PPI/PRE/POST
	Bicep II® Magnum brands	EPP/PPI/PRE/POST		Harness® brands	EPP/PPI/PRE/POST
	Dual II® Magnum	EPP/PPI/PRE/POST		Warrant®	POST
	Lumax®	EPP/PRE		Roundup® brands	Preplant/POST
	Lexar®	EPP/PRE		FMC® Corporation	Aim®
Zemax®	Preplant/PRE	Anthem® brands	EPP/PRE/POST		
Corteva Agriscience™	Keystone® brands	Preplant/POST	Cadet®		Preplant/POST
	FulTime® brands	Preplant/POST	Fierce®		Preplant Burndown
	Durango®	POST	Resource®	POST	
	Resicore®	EPP/PPI/PRE	Valor® SX	Preplant Burndown	
	Stinger®	POST	Perpetuo™	Preplant/PRE/POST	
BASF® Ag Products	Breakfree® brands	EPP/PPI/PRE/POST	Valent® USA		
	Liberty® 280	Preplant/POST			
	G-Max® Lite	EPP/PPI/PRE/POST			
	Guardman Max®	EPP/PPI/PRE/POST			
	Outlook®	EPP/PPI/PRE/POST			
	Prowl® H <sub>2</sub> O	EPP/PPI/PRE/POST			
	Status®	POST			
	Marksman™	PRE/POST			
	Zidua®	EPP/PPI/PRE/POST			

The following corn herbicides\* cannot be applied at timings listed below with COUNTER 20G Insecticide:

Manufacturer	Corn Herbicide	Timing	Manufacturer	Corn Herbicide	Timing
AMVAC	Hornet®	Preplant/PRE/POST	Bayer CropScience	Capreno®	PRE/POST
	Python®	Preplant/PRE		Corvus®	Preplant/PRE/POST
Corteva Agriscience	Accent® brands	POST		Option™	POST
	Basis®	PRE/POST		TripleFLEX™ brands	PRE/POST
	Prequel®	Preplant/PRE	BASF Ag Products	Sharpen®	Preplant/PRE
	Realm® Q	POST		Verdict®	Preplant/PRE
	Require® Q	Preplant/PRE/POST	FMC Corporation	Solstice®	POST
	Resolve® brands	Preplant/PRE/POST	Gowan™ Co., LLC	Permit®	POST
	Steadfast® brands	POST			
	Stout®	POST			
	SureStart® brands	Preplant/PRE/POST			
	Resicore®	POST			
Syngenta Crop Protection, Inc.	Leadoff®	Preplant/PRE			
	Instigate®	Preplant/PRE			
	Acuron® brands	POST			
	Beacon®	POST			
	Northstar®	POST			
	Spirit®	POST			
	Callisto® brands	POST			
	Zemax®	POST			
Halex® GT	POST				
Lexar®	POST				
Lumax®	POST				

\*Other herbicides not listed above 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 1-888-462-6822, or visit AMVAC.com.