

# GUIDELINES FOR COUNTER® 20G 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® 20G** 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.

**Since both AZTEC and SmartChoice are non-systemic, they do not interact negatively with either soil-applied or postemergence corn herbicides.**

The OP chemistry in **COUNTER 20G** 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.

However, because of its systemic nature within the corn plant, **COUNTER 20G** 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 20G**, many corn herbicides may be applied prior to or following **COUNTER 20G** at-planting with crop safety. Always read and follow the **COUNTER 20G** product label before applying. 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 20G** 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 in corn.**

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

## Guidelines for Herbicide<sup>1</sup> 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 <sup>®</sup>	Impact <sup>®</sup>	POST	Bayer <sup>®</sup> CropScience	Balance <sup>®</sup> Flexx	EPP/PPI/PRE/POST	
	ImpactZ <sup>®</sup>	POST		Balance <sup>®</sup> Pro	EPP/PPI/PRE	
	Impact Core <sup>®</sup>	POST		Buctril <sup>®</sup> 4EC	POST	
	Sinate <sup>®</sup>	POST		Degree <sup>®</sup> brands	EPP/PPI/PRE/POST	
Syngenta <sup>®</sup> Crop Protection, Inc.	AAtrex 4L <sup>®</sup>	EPP/PPI/PRE/POST		DiFlexx <sup>®</sup> brands	Preplant/PRE/POST	
	Acuron <sup>®</sup> brands	EPP/PRE		Harness <sup>®</sup>	EPP/PPI/PRE/POST	
	Bicep II <sup>®</sup> Magnum brands	EPP/PPI/PRE/POST		Harness <sup>®</sup> Xtra brands	EPP/PPI/PRE/POST	
	Dual II <sup>®</sup> Magnum	EPP/PPI/PRE/POST		Laudis <sup>®</sup>	POST	
	Lumax <sup>®</sup>	EPP/PRE		Roundup <sup>®</sup> brands	Preplant/POST	
	Lexar <sup>®</sup>	EPP/PRE		Warrant <sup>®</sup>	POST	
	Zemax <sup>®</sup>	Preplant/PRE		FMC <sup>®</sup> Corporation	Aim <sup>®</sup>	Preplant/POST
Corteva Agriscience <sup>™</sup>	Breakfree <sup>®</sup> brands	EPP/PPI/PRE/POST			Anthem <sup>®</sup> brands	EPP/PRE/POST
	Durango <sup>®</sup>	POST			Cadet <sup>®</sup>	Preplant/POST
	FulTime <sup>®</sup> brands	Preplant/POST			Valent <sup>®</sup> USA	Fierce <sup>®</sup> brands
	Keystone <sup>®</sup> brands	Preplant/POST	Perpetuo <sup>™</sup>	Preplant/PRE/POST		
	Resicore <sup>®</sup>	EPP/PPI/PRE	Resource <sup>®</sup>	POST		
Stinger <sup>®</sup>	POST	Valor <sup>®</sup> SX	Preplant Burndown			
BASF <sup>®</sup> Ag Products	G-Max <sup>®</sup> Lite	EPP/PPI/PRE/POST				
	Guardman Max <sup>®</sup>	EPP/PPI/PRE/POST				
	Liberty <sup>®</sup> 280	Preplant/POST				
	Marksman <sup>®</sup>	PRE/POST				
	Outlook <sup>®</sup>	EPP/PPI/PRE/POST				
	Prowl <sup>®</sup> H <sub>2</sub> O	EPP/PPI/PRE/POST				
	Status <sup>®</sup>	POST				
Zidua <sup>®</sup>	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 <sup>®</sup>	Preplant/PRE/POST	Bayer CropScience	Capreno <sup>®</sup>	PRE/POST
	Python <sup>®</sup>	Preplant/PRE		Corvus <sup>®</sup>	Preplant/PRE/POST
Corteva Agriscience	Accent <sup>®</sup> brands	POST		Harness <sup>®</sup> Max	POST
	Basis <sup>®</sup> brands	PRE/POST		TripleFLEX <sup>®</sup> brands	PRE/POST
	Instigate <sup>®</sup>	Preplant/PRE	BASF Ag Products	Sharpen <sup>®</sup>	Preplant/PRE
	Leadoff <sup>®</sup>	Preplant/PRE		Verdict <sup>®</sup>	Preplant/PRE
	Prequel <sup>®</sup>	POST	FMC Corporation	Solstice <sup>®</sup>	POST
	Realm <sup>®</sup> Q	Preplant/PRE/POST	Gowan <sup>®</sup> Co., LLC	Beacon <sup>®</sup>	POST
	Resicore <sup>®</sup>	POST		Northstar <sup>®</sup>	POST
	Resolve <sup>®</sup> brands	Preplant/PRE/POST		Peak <sup>®</sup>	POST
	Require <sup>®</sup> Q	Preplant/PRE/POST		Permit <sup>®</sup>	POST
	Steadfast <sup>®</sup> brands	POST		Spirit <sup>®</sup>	POST
	Stout <sup>®</sup>	POST		Yukon <sup>®</sup>	POST
SureStart <sup>®</sup> brands	POST				
Syngenta Crop Protection, Inc.	Acuron <sup>®</sup> brands	POST	<sup>1</sup> Read and follow label restrictions of any herbicide before using in conjunction with Counter 20G at planting. Interactions of certain herbicides with Counter 20G may occur under adverse growing conditions which can cause significant injury to corn. Labels can be found at the manufacturer's websites. For more information about COUNTER 20G use with corn herbicides, contact your local agricultural chemical retailer or AMVAC representative at 1-888-462-6822, or visit AMVAC.com.		
	Callisto <sup>®</sup> brands	POST			
	Halex <sup>®</sup> GT	POST			
	Lexar <sup>®</sup>	POST			
	Lumax <sup>®</sup>	POST			
Zemax <sup>®</sup>	POST				