

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

Guidelines for Herbicide¹ 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	Axiom®	PP/PRE	
	ImpactZ®	POST		Balance® Flexx	PP/PRE/POST	
	Impact Core®	POST		Balance® Pro	PP/PRE	
	Sinate®	POST		Buctril® 4EC	POST	
Syngenta® Crop Protection, Inc.	AAtrex 4L®	PP/PRE/POST		Degree® brands	PP/PRE/POST	
	Acuron® brands	PP/PRE		DiFlexx® brands	PP/PRE/POST	
	Bicep II® Magnum brands	PP/PRE/POST		Harness®	PP/PRE/POST	
	Calibra®	PP/PRE		Harness® Max	PP/PRE	
	Dual® brands	PP/PRE/POST		Harness® Xtra brands	PP/PRE/POST	
	Lumax® brands	PP/PRE		Laudis®	POST	
	Lexar® brands	PP/PRE		Roundup® brands	PP/POST	
	Princep®	PP/PRE		Warrant®	PP/PRE/POST	
Corteva Agriscience™	Sequence®	PP/PRE/POST		FMC® Corporation	Aim®	PP/POST
	Breakfree® brands	PP/PRE/POST			Anthem® brands	PP/PRE/POST
	Durango®	POST			Cadet®	PP/POST
	Enlist® brands	PP/PRE/POST			FirstShot®	PP
	FulTime® brands	PP/POST	Harmony®		POST	
	Keystone® brands	PP/POST	Harmony® Extra		PP	
	BASF® Ag Products	Kyber®	PP	Summit Agro®	T-Square®	PP
		Kyro®	POST		Restraint®	PP/PRE/POST
		Resicore® brands	PP/PRE		Shieldex®	POST
		Stinger®	POST		Fierce®	PP
Surpass®		PP/PRE/POST	Fierce® MTZ		PP	
TopNotch®		PP/PRE/POST	Valent® USA		Maverick™	PP/PRE
Armezon® brands		PP/PRE/POST			Perpetuo™	PP/PRE/POST
Liberty® 280		PP/POST			Resource®	POST
Marksman®	PRE/POST	Valor® SX		PP		
BASF® Ag Products	Outlook®	PP/PRE/POST				
	Prowl® H ₂ O	PP/PRE/POST				
	Status®	POST				
	Zidua®	PP/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®	PP/PRE/POST	Bayer CropScience	Capreno®	PRE/POST		
	Python®	PP/PRE/POST		Corvus®	PP/PRE/POST		
Corteva Agriscience	Accent® brands	POST		Harness® Max	POST		
	Basis® brands	PRE/POST		TripleFLEX® brands	PRE/POST		
	Instigate®	PP/PRE	TriVolt®	PP/PRE/POST			
	Leadoff®	PP/PRE	BASF Ag Products	Sharpen®	PP/PRE		
	Matrix®	PP/PRE/POST		Verdict®	PP/PRE		
	Corteva Agriscience	Prequel®	POST	FMC Corporation	Crusher®	PP/PRE	
		Realm® Q	PP/PRE/POST		Panoflex®	PP/PRE	
		Resicore®	POST		Solstice®	POST	
		Syngenta Crop Protection, Inc.	Resolve® brands	PP/PRE/POST	Gowan® Co., LLC	Beacon®	POST
			Require® Q	PP/PRE/POST		Gambit®	POST
			Revulin® Q	POST		Northstar®	POST
			Steadfast® brands	POST		Peak®	POST
Stout®			POST	Permit® brands		POST	
SureStart® brands			POST	Sanded®		POST	
Acuron® brands			POST	Spirit®		POST	
Calibra®	POST		Yukon®	POST			
Syngenta Crop Protection, Inc.	Callisto® brands		POST	Valent USA		Maverick™	POST
	Halex® GT		POST				
	Lexar® brands	POST					
	Lumax® brands	POST					

¹Read 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.