





INNICTIS CROP CARE® PRODUCTS CONTAINING GLYPHOSATE						TANK MIX CAPABILITIES				
Herbicides	AI	Product Description	Pound of A.I. /Gallon	Pound of Acid/ Gallon	Rate to achieve 0.75 lb acid/A	Xtendimax	Engenia	Tavium	Enlist One	Enlist Duo
ENVY™	IPA Salt Glyphosate	Envy is a 4 lb/gallon glyphosate systemic herbicide offering broad spectrum weed control across many crops.	4 lb/gal	3 lb/gal	32 oz/A					
ENVY™ INTENSE	IPA Salt Glyphosate	Highly active 4 lb glyphosate-based formulation with a superior surfactant package for weeds in tough to control conditions.	4 lb/gal	3 lb/gal	32 oz/A					
ENVY™ K-SIX	K Salt Glyphosate	Straight potassium salt glyphosate with a built-in premium surfactant package. Compatible with numerous tank mix options. Approved for use with over-the-top dicamba sprays.	5.5 lb/gal	4.5 lb/gal	22 oz/A	X¹	X³	X¹	X	
ENVY™ SIX MAX	IPA and K Salt Glyphosate	Envy Six Max provides the fastest translocation activity of all our Envy brands. Excellent tank mix compatibility and superior crop safety for glyphosate resistant crops, makes Envy Six Max our most widely used glyphosate product.	3.33 lb/gal (IPA Salt) 2.5 lb/gal (K Salt)	2.5 lb/gal (IPA Salt) 2.0 lb/gal (K Salt) 4.5 lb/gal Total	22 oz/A				X	
VENTI™ MAX	IPA Salt Glyphosate	Venti Max is a 4 lb isopropylamine glyphosate with a fit on most acres where glyphosate can be used. Venti Max is a systemic, non-selective herbicide controlling many grass and broadleaf weeds. Venti Max can be used in many agricultural systems including Roundup Ready or glyphosate tolerant crops.	5.4 lb/gal	4 lb/gal	24 oz/A					

INNICTIS CROP CARE® ADJUVANT RECOMMENDATIONS					TANK MIX CAPABILITIES				
Adjuvants	Product Properties	Product Description	Rate	Xtendimax	Engenia	Tavium	Enlist One	Enlist Duo	
VALKARIE™ 	Deposition, Penetrant, Spreader, Sticker	Valkarie is a NPE free non-ionic surfactant, formulated to improve deposition, spreading, and adhesion of a spray solution. Valkarie is able to soften a leaf's waxy cuticle, leading to increased penetration and movement to the site of action.	0.25% v/v	X¹	X¹	X¹	X	X	
AVIATOR™ 	Acidifier, Humectant, Penetrant, Spreader, Sticker, Water Conditioner	Aviator is a non-ionic surfactant, water conditioning agent, and acidifier. Aviator enhances coverage, adhesion, and penetration of spray solutions while protecting herbicides from hard water tie-up.	0.25% v/v	X³	X³	X¹	X		
TRAVERSE™	Water Conditioning Agent, Surfactant, Humectant	A convenient combination of surfactants and liquid water conditioners that dramatically lowers pH to improve pesticide performance.	1-4 qt/100 gallons						
VIXEN® AC-L	Water Conditioner	A blend of highly effective water conditioning agents that are specifically designed to minimize the interaction between hard water ions and active ingredients	0.5-2 qt/100 gallons				X	X	



ARE ALL GLYPHOSATE FORMULATIONS THE SAME?

There are several glyphosate formulations and glyphosate containing products that are in the marketplace. Glyphosate formulations can vary based on the type of salt, addition of surfactant, active ingredient (a.i.) and acid equivalent (a.e.) concentration.

WHAT MAKES ONE SALT DIFFERENT THAN ANOTHER?

All glyphosate is salt, but not all glyphosate is the same salt. There are four common types of glyphosate salts: potassium, isopropylamine, ammonium, and trimesium salts. Two aspects drive the difference in the salts: molecular weight and acid-to-salt ratio, these two impact the differences in amount of acid equivalent or active ingredient in a glyphosate formulation. Additional differences among the four major glyphosate salts are chemical structure and water solubility.

WHAT'S THE DIFFERENCE BETWEEN ACID RATE AND ACTIVE RATE?

Acid equivalent is the weight of glyphosate as an acid alone in formulation. While active ingredient is glyphosate plus salt, often on glyphosate labels, the label will read in both acid equivalent and active ingredient. Though acid equivalents can be different among formulations, it is important to remember that the standard rate per acre is 0.75 pounds of glyphosate acid. When heavy weed pressure is present, a higher acid rate may be necessary.

WHAT IS A "LOADED" GLYPHOSATE?

We use the term "loaded glyphosate" to describe a glyphosate product or formulation that already has a surfactant formulated into the product. Not all glyphosate formulations come "fully loaded," and products can have varying levels of surfactants, with some containing as little as 5% or as much as 15% of the total formulation. Though a glyphosate formulation may be loaded, it's often tank mixed with other products that may require an additional adjuvant. It's also important to know that not all glyphosate surfactants are built the same, so adding an additional adjuvant for water conditioning, improved deposition, droplet spreading, adhesion, and penetration can be beneficial.

ARE THERE HANDLING DIFFERENCES I SHOULD BE AWARE OF WHEN CREATING MY CROP PROTECTION PROGRAM?

Not all glyphosate products are the same, so when considering different glyphosate products compare the load of acid and active in the formulation. Performance could be impacted when optimal rates of acid are not met. Also, it is important to always do a jar test prior to creating a tank mix to confirm product compatibility since glyphosate formulations can vary.

Always compare pounds of acid and active when selecting a glyphosate product.