



Overwatch® Herbicide Mixing and Compatibility

Overwatch® Herbicide has been tested and is compatible in a two way mix with most commonly used crop establishment herbicides and insecticides. To ensure successful tank mixing and application, it is important to use correct mixing order, follow sound mixing practices and avoid over filtering. If the intended tank mix is not listed in the table below, carefully perform a compatibility jar test to help determine any potential physical compatibilities before mixing at full scale. This is particularly important when the tank mix consists of more than two products.

Top Tips for Mixing and Compatibility

- ✓ **Take your time and BE PATIENT.** Many incompatibility issues and mixing problems are caused simply by rushing the process. Trying to add all your products into the spray tank before it fills should not be your objective when undertaking complex mixes.
 - Fill the spray tank to 70% of its capacity with water before introducing any products. Starting with more water will increase room for products to disperse.
 - Allow enough time for products to fully disperse in the tank before adding the next product.
 - Higher water rates per hectare improve the likelihood of compatibility.
 - FMC recommends using at least 80 L/ha.
- ✓ **Over filtering may cause compatibility issues.** Check the recommended in-line filtration is appropriate for the nozzle being used.
- ✓ **Simplify the mix.**
 - The more components in the mix, the greater complexity of the chemistry and risk of mixing issues.
- ✓ **Only ever add one product at a time when filling.**
- ✓ **Not all products are created equal:**
 - There are small (and sometimes large) differences between formulations of products with the same active.
 - Potassium (K salt) loaded glyphosates are often less compatible than mono ammonium and isopropylamine loaded glyphosates.
 - FMC recommends using quality products from reputable brands.
 - Understand the formulation types of each product being mixed and adhere to mixing order recommendations as described in the table below.

Recommended Mixing Order

Step	Mixing Sequence	Product examples	Tips
1	Clean tank and flush lines as per the most rigorous cleaning method stated on previous mix products label		The residual product in lines may be enough to cause antagonism resulting in filter blockages
2	Fill tank to 70% capacity with good agitation		Use best available water source and maintain tank agitation when filling
3	Add water conditioners	Li-700 [#] , ammonium sulphate	
4	Add Water Dispersible Granules (WG) or Dry flowable products (DF)	Rustler [®] WG, Sharpen [#] , Sakura [#] WG, Siminex [#] , Atrazine 900 WG	Add slowly and fully disperse granules before adding the next product
5	Flowable or Suspension Concentrates (SC)	Overwatch [®] Herbicide, Rustler [®] SC,	Add slowly to tank
6	Emulsifiable Concentrates (EC)	Hammer [®] , Trifluralin, Tri-allate, Dual Gold [#] , Boxer Gold [#] , Countdown [#]	Add slowly. Solvent based products still require time to fully disperse in the tank
7	Fill tank to 90% capacity with good agitation		
8	Water Soluble Concentrates (SL)	Gladiator [#] CT, Paraquat, Amicide [#] Advance, Spray.Seed [#]	It is critical to add these products only when all other products are fully dispersed in the tank
9	Surfactants and oils	On Course [#] DRA, Parachute [#] , BS1000 [#] , Uptake [#]	
10	Fill tank to 100% and maintain good agitation		Do not allow mixtures to settle or stand for prolonged periods



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Overwatch® Herbicide Compatibilities

Product	Product Active Ingredient	Product Formulation Type	Physical Compatibility with Overwatch® Herbicide
Herbicides			
Amicide# Advance 700	2,4-D Amine	SL	
Avadex Xtra#	Tri-allate	EC	
Boxer Gold#	Prosulfocarb, S-metolachlor	EC	
Butisan#	Metazachlor	SC	
Countdown#	Prosulfocarb	EC	
Crucial#	Glyphosate (Potassium, monomethylamine and mono-ammonium salts)	SL	Constant agitation recommended
Devrinol-C# WG 500	Napropamide	WG	Not recommended
Dual Gold#	S-metolachlor	EC	
Gladiator# CT	Glyphosate (Isopropylamine salt)	SL	Constant agitation recommended
Hammer® EC400	Carfentrazone	EC	
Impose#	Imazapic	SL	
Ken-Trel# 300	Clopyralid	SL	
Knockout Extreme# 540	Glyphosate (Potassium salt)	SL	Not recommended due to heavy flocculation despite agitation
Paraquat 250 SL	Paraquat	SL	
Pendimethalin 440 EC	Pendimethalin	EC	
Rustler® SC	Propyzamide	SC	
Rustler® WG	Propyzamide	WG	
Sakura# 850 WG	Pyroxasulfone	WG	
Sakura# Flow	Pyroxasulfone	SC	
Sharpen#	Saflufenacil	WG	
Simanex# 900 WG	Simazine	WG	
Spray.Seed# 250	Diquat, Paraquat	SL	
Terbyne# Xtreme 875 WG	Terbuthylazine	WG	
Trilogy#	Trifluralin	EC	
Valor# 500 WG	Flumioxazin	WG	Not recommended
Weedmaster# DST	Glyphosate (Potassium and mono-ammonium salts)	SL	Constant agitation recommended
Insecticides			
Imidan#	Phosmet	EC	
Le-mat® 290 SL	Omethoate	SL	
Pyrinex Super# Insecticide	Chlorpyrifos, Bifenthrin	EC	
Talstar® 250 EC	Bifenthrin	EC	
Trojan® Insecticide	Gamma Cyhalothrin	CS	

*Physical compatibilities have only been assessed on the products listed. Due to variations in formulations, products not listed but the same active ingredient as a listed product, may behave differently when mixed with Overwatch® Herbicide.

** Physical compatibility does not guarantee biological compatibility.

***Contact your local FMC representative if unsure about a tank mix.

****This document will be updated periodically with additional mix partners added as requested.

For further details, visit www.overwatchherbicide.com

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