

Mixing and Compatibility Guide



Overwatch® eXL Granules has been tested and is physically 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 the 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 incompatibility OR compatibility issues 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 by rushing the process.
 - Fill the spray tank to 70% of its capacity with water before introducing any product.
 - Allow enough time for a product to fully disperse in the tank before adding the next product. This is especially important when granules are in the mix.
 - Effective agitation when filling, in transit and spraying is critical as it improves compatibility and prevents settling.
 - FMC recommends using a spray volume of no less than 80 L/ha.
- ✓ **Over filtering may cause sprayline blockages.** Check the recommended in-line filtration is appropriate for the nozzle being used. To meet the minimum **coarse** spray quality application requirement, a properly rated nozzle with an orifice **size 02 or larger is required.** All nozzle manufacturers recommend a 50 mesh filter for all single orifice nozzles of this size. With Overwatch® eXL Granules in-line and nozzle filters **not finer than 50 mesh are required.**
- ✓ **Simplify the mix.** The complexity of the chemistry and potential for mixing issues increases with each additional component.
- ✓ **Only ever add one product at a time when filling. Always add products to water. Never add neat products together.**
- ✓ **Not all products are created equal:**
 - There are minor (and sometimes major) differences between formulations of products with the same active ingredient.
 - FMC recommends using quality products from reputable manufacturers.
 - Understand the formulation types of each product being mixed and adhere to mixing order recommendations.
- ✓ **When Overwatch®eXL Granules are applied in conjunction with other herbicides refer to label for further details.** It is the responsibility of the end-user to understand all risks associated with using other herbicides in a tank-mix with Overwatch®eXL Granules. Ensure that all precautions on the label of the tank mix partner are closely followed.

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	Ammonium sulphate	Avoid oil based products
4	Add Water Dispersible Granules (WG) or Dry flowable products (DF)	Overwatch® eXL Granules, Sharpen#, Sakura# 850 WG, Atrazine 900 WG	Add slowly and fully disperse granules before adding the next product. This may take up to 10 minutes in cold water
5	Flowable or Suspension Concentrates (SC)	Rustler® SC, Sakura# Flow	Add slowly to tank
6	Emulsifiable Concentrates (EC)	Hammer®, Trifluralin, Tri-allate, 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)	Crucial#, Nufarm glyphosate 450 SL, Paraquat 250, 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	Parachute®, BS1000#, Agral# 600	NOTE: Gramoxone# PRO has a different mixing order to other paraquat products.
10	Fill tank to 100% and maintain good agitation		Do not allow mixtures to settle or stand for prolonged periods

Overwatch® eXL Granules Compatibilities

Product formulations listed on the next page may have changed since physical compatibility testing was conducted. These changes are outside FMC's control and may make the new formulation physically incompatible with Overwatch® eXL Granules. FMC recommends applying all tank mixes under constant agitation. **Physical compatibility does not always guarantee biological compatibility and should be undertaken only after careful consideration.**



Brand Formation	Product Active Ingredient	Product Formulation Type	Physical Compatibility with Overwatch® eXL Granules
HERBICIDES			
Amicide Advance# 700 Herbicide	2,4-D Amine	SL	Compatible
Arcade# Herbicide	Prosulfocarb	EC	Compatible
ARCHER# 750 Herbicide	Clopyralid	SL	Compatible
Avadex# Xtra Herbicide	Tri-allate	EC	Compatible
Boxer Gold# Herbicide	Prosulfocarb, S-metolachlor	EC	Compatible
Callisto# Herbicide	Mesotrione	SC	Constant agitation required
Crucial# Herbicide	Glyphosate (Potassium, mono-methylamine and mono-ammonium salts)	SL	Compatible
Diuron 900 WG Herbicide (Adama)	Diuron	WG	Constant agitation required
Dual Gold# Herbicide	S-metolachlor	EC	Constant agitation required
Gesaprim# Granules Herbicide	Atrazine	WG	Compatible
NuFarm Glyphosate 450 SL Herbicide	Glyphosate (Isopropylamine salt)	SL	Compatible
Gramoxone# 360 PRO Herbicide	Paraquat	SL	Compatible
Hammer® 400 EC Herbicide	Carfentrazone	EC	Constant agitation required
Impose# Herbicide	Imazapic	SL	Compatible
Conquest Knockout Extreme Herbicide	Glyphosate (Potassium salt)	SL	Compatible
Genfarm Panzer 450 Herbicide	Glyphosate (isopropylamine salt)	SL	Compatible
Genfarm Panzer 540 Herbicide	Glyphosate (Potassium salt)	SL	Compatible
Liberty# Non-Selective Herbicide	Glufosinate-ammonium	SL	Compatible
Reflex# Herbicide	Formesafen	SL	Compatible
Roundup# CT Broadacre Herbicide	Glyphosate (isopropylamine salt)	SL	Compatible
Roundup# Ultra MAX Herbicide	Glyphosate (Potassium salt)	SL	NOT Compatible
Rustler® 900 WG Herbicide	Propyzamide	WG	Compatible
Rustler® SC Selective Herbicide	Propyzamide	SC	Compatible
Sakura# 850 WG Herbicide	Pyroxasulfone	WG	Compatible
Sakura# Flow Herbicide	Pyroxasulfone	SC	Compatible
Sharpen# WG Herbicide	Saflufenacil	WG	Compatible
Simanex# 900 WG Herbicide	Simazine	WG	Constant agitation required
Spray.Seed# 250 Herbicide	Diquat, Paraquat	SL	Compatible
Tenet# 500 SC Herbicide	Metazachlor	SC	Compatible
Terbyne# Xtreme 875 WG Herbicide	Terbuthylazine	WG	Constant agitation required
Terrad'or # 700 WG Herbicide	Tiafenacil	WG	Constant agitation required
TriflurX# Herbicide	Trifluralin	EC	Compatible
Ulto# 900 WG Herbicide	Carbetamide	WG	Compatible
Weedmaster# DST Herbicide	Glyphosate (Potassium and mono-ammonium salts)	SL	Compatible
Voraxor# Herbicide	Saflufenacil, Trifludimoxazin	SC	Constant agitation required
ADJUVANTS / OTHER			
Agral 600# Spray Adjuvant			Compatible
Spreadwet# 1000 Wetting agent			Compatible
Hot-up# Spray adjuvant			NOT Compatible
Parachute® nC27 Paraffinic spray oil			Compatible
On Coarse® DRA (Drift reducing agent)			Compatible
Hasten# Spray adjuvant			Constant agitation required
Outright# 770 Spray adjuvant			NOT Compatible
Flexi-N*	UAN-Contains urea, ammonium and nitrate forms of nitrogen	Liquid	Constant agitation required
INSECTICIDES			
Trojan® Insecticide	Gamma-cyhalothrin	CS	Compatible

Overwatch® eXL Granules as well as a tank mixture of Overwatch® eXL Granules + paraquat 250 are physically compatible with Flexi-N* (UAN) providing the following steps are followed: -

- Follow the correct mixing order adding Flexi-N (UAN) last after all products have been allowed to disperse in the solution
- The ratio of water to UAN does not exceed 60% water : 40% UAN
- Good agitation is maintained throughout
- No finer than 50 mesh in-line and nozzle filters and 02 nozzles or greater are used
- A minimum water volume of 80 L/ha will be applied

For further details, contact your agronomist or visit ag.fmc.com/au

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