



Overwatch® Herbicide Mixing and Compatibility

Overwatch® Herbicide 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 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 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 the chance of a successful tankmix.
 - Allow enough time for products to fully disperse in the tank before adding the next product.
 - 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 80L/ha.
- ✓ **Over filtering may cause Sprayline blockages**
Check the recommended in-line filtration is appropriate for the nozzle being used. FMC recommends no finer than 50 mesh in-line and nozzle filters and 02 nozzles when using Overwatch® Herbicide.
- ✓ **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.
 - Overwatch® Herbicide is not physically compatible with most High-load glyphosate formulations present as the potassium salt.
 - FMC recommends using quality products from reputable manufacturers.
 - Understand the formulation types of each product being mixed and adhere to mixing order recommendations as described in the table below.
- ✓ **When Overwatch® Herbicide is 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® Herbicide. 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) | Rustler® 900 WG, Sharpen®, Sakura® 850 WG, Simanex® WG, 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 | Parachute®, BS1000®, Uptake® | 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 |



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FMC Australasia Pty Ltd
Phone: 1800 066 355
www.fmccrop.com.au

Overwatch® Herbicide Compatibilities

Product formulations listed 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® Herbicide. FMC recommends applying all tank mixes under constant agitation.

| Product | Product Active Ingredient | Product Formulation Type | Physical Compatibility with Overwatch® Herbicide |
|---|--|--------------------------|--|
| Herbicides | | | |
| Adama Diuron 900 WG | Diuron | WG | Compatible |
| Amicide [#] Advance 700 | 2,4-D Amine | SL | Compatible |
| Avadex Xtra [#] | Tri-allate | EC | Compatible |
| Boxer Gold [#] | Prosulfocarb, S-metolachlor | EC | Compatible |
| Tenet [#] 500 | Metazachlor | SC | Compatible |
| Countdown [#] | Prosulfocarb | EC | Compatible |
| Crucial [#] | Glyphosate (Potassium, mono-methylamine and mono-ammonium salts) | SL | Constant agitation required |
| Devrinol-C [#] WG 500 | Napropamide | WG | Not compatible |
| Dropzone [#] | 2,4-D Amine | SL | Not compatible |
| Dual Gold [#] | S-metolachlor | EC | Compatible |
| Gladiator [#] CT | Glyphosate (Isopropylamine salt) | SL | Constant agitation required |
| Gladiator OptiMAX | Glyphosate (Potassium salt) | SL | Not compatible |
| Gramoxone [#] 360 Pro | Paraquat | SL | Constant agitation required |
| Hammer [®] EC400 | Carfentrazone | EC | Compatible |
| Impose [#] | Imazapic | SL | Compatible |
| Ken-Trel [#] 300 | Clopyralid | SL | Compatible |
| Knockout Extreme [#] 540 | Glyphosate (Potassium salt) | SL | Constant agitation required |
| Liberty [#] Herbicide | Glufosinate-ammonium | SL | Compatible |
| Panzer 540K | Glyphosate (Potassium salt) | SL | Not compatible |
| Roundup [#] UltraMAX | Glyphosate (Potassium salt) | SL | Not compatible |
| Reflex [#] | Formesafen | SL | Compatible |
| Rustler [®] Selective Herbicide | Propyzamide | SC | Compatible |
| Rustler [®] 900 WG Herbicide | Propyzamide | WG | Compatible |
| Sakura [#] 850 WG | Pyroxasulfone | WG | Compatible |
| Sakura [#] Flow | Pyroxasulfone | SC | Compatible |
| Sharpen [#] | Saflufenacil | WG | Compatible |
| Shirquat [#] 250 | Paraquat | SL | Compatible |
| Simanex [#] 900 WG | Simazine | WG | Compatible |
| Spray.Seed [#] 250 | Diquat, Paraquat | SL | Compatible |
| Terbyne [#] Xtreme 875WG | Terbuthylazine | WG | Compatible |
| Trilogy [#] | Trifluralin | EC | Compatible |
| Triflur [#] X | Trifluralin | EC | Compatible |
| Ulto [#] | Carbetamide | WG | Constant agitation required |
| Valor [#] 500 WG | Flumioxazin | WG | Compatible |
| Weedmaster [#] ARG0 [#] | Glyphosate (Potassium and isopropylamine salts) | SL | Constant agitation required |
| Weedmaster [#] DST | Glyphosate (Potassium and mono-ammonium salts) | SL | Constant agitation required |
| Insecticides | | | |
| Imidan [#] | Phosmet | EC | Compatible |
| Le-mat [#] 290 SL | Omethoate | SL | Compatible |
| Pyrex Super [#] Insecticide | Chlorpyrifos, Bifenthrin | EC | Compatible |
| Talstar [®] 250 EC | Bifenthrin | EC | Compatible |
| Trojan [®] Insecticide | Gamma Cyhalothrin | CS | Compatible |
| Adjuvants | | | |
| Hot-Up [#] | | | Not compatible |
| Hasten [#] Spray Adjuvant | | | Constant agitation required |
| Spreadwet [#] 1000 | | | Compatible |
| Outright [#] 770 | | | Not compatible |

*Contact your local FMC representative if requiring further compatibility advice. **This document will be updated periodically with additional mix partners as new supporting data becomes available.

For further details, visit www.overwatchherbicide.com

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