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TECH Tips

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Generalized Pesticide Mixing Order- 2023

Tank mixes are the standard application method used in today's production agriculture. To be effective, all herbicides and additives to a spray solution must be thoroughly mixed to form a homogeneous spray mixture. Proper mixing order influences product performance, compatibility, tank cleaning, and even can affect drift. Proper mixing order is critical to assure full compatibility of spray solution components. Spray additives can pre-condition water to increase the efficacy of certain herbicides. Drift reduction additives and deposition aids can greatly improve product performance in the crop. Applicators must read and follow label directions and must adhere to approved tank mixes, such as online recommendations and restrictions for herbicide-tolerant crops.

2023 Generalized Pesticide Mixing Order Recommendation

- 1) Fill spray tank half full of water and begin **agitation**. Allow plenty of time between ingredient additions, as each product must be completely dissolved and mixed before the next ingredient.
- 2) Add **Water Conditioner** products (**ARx Armor, ARx Axis 3.5, AMS, ARx Rivet**) or a non-AMS water conditioner product and **agitate thoroughly**.
- 3) Add Water Dispersible Granular (WDG) and Extruded Granular (G) products and **agitate until dissolved and suspended**.
- 4) Add Compatibility Agents, if needed and **agitate**.
- 5) Add Flowables (F), Soluble Concentrate (SC) or Suspo-Emulsion (SE) products and **agitate**.
- 6) Add nutrient/micronutrient products (**ARx MicroSul, ARx NutraSul DT, ARx N-Fuze, ARx N-Sorb or other brands**) and **agitate**.
- 7) Add insecticides, fungicides and EC products (IE: corn-killer herbicides or EC-formulated residuals) and **agitate**.
- 8) Add glyphosate products (K-Salt, IPA or DMA salt) or glufosinate and **agitate thoroughly**.
- 9) Add additional adjuvants (**ARx Acclimate (NIS), ARx Corepoint (HSCOC), ARx Tarex (HSMSO), ARx Accessory (Acidifier MSO), ARx Zellar**) and **agitate**.
- 10) Add drift control and deposition aid (**ARx Affix**) and **agitate**.
- 11) Finish filling the spray tank with water and continue **agitation**.
- 12) End the day with the sprayer empty and the spray booms flushed, if possible.

General Tank Cleaning Guidelines- Clean spray tank **BEFORE** and **AFTER** spraying, triple rinse the sprayer and use **Erase** tank cleaner in the second rinse. Be sure to thoroughly clean spray booms and make every effort to rinse or fully empty the spray boom each night.