

General Cleaning Recommendations for Sprayer Equipment

1. Finish with an empty tank leaving all product in the field.
2. Clean the sprayer in an area that will not contaminate water supplies, streams, crops or other sensitive areas and in an area inaccessible to children, pets and livestock.
3. Rinse equipment thoroughly removing any visible product adhering to the inside of tank. Fill the tank 10% full with water and the herbicide-specific Rinse 1 solution from the tables included inside this publication. Agitate for 15 minutes.
4. Flush Rinse 1 through hoses, boom and nozzles for 15 minutes, then drain.
5. After flushing system, disassemble, clean and flush all strainers, filters, nozzles, nozzle screens, diaphragms and boom ends where residue can accumulate. Reassemble.
6. Fill the tank 10% full with water and the Rinse 2 solution (if applicable) while agitating. Charge booms. Let it set preferably overnight before flushing again.
7. Continue listed recommended rinses from the table (Rinses 3, 4, 5 and 6) for selected herbicide by filling, agitating and flushing the system with the listed solution each time.
8. Thoroughly clean the outside of equipment including tanks, booms, nozzles and tires.

NOTE: Following the procedures specified on the herbicide or commercial cleaner label is critical to removing herbicide residue from the sprayer system. This publication provides general guidelines for cleaning application equipment, but it is important to remember that the best source of information is the pesticide label and application equipment manual. Consult labels of the products that were previously in the tank, and for the products that will be used for the next application, for specific cleaning and mixing/loading instructions.

The University of Arkansas Division of Agriculture recommends a minimum triple rinse for clean-out of all herbicides regardless of label recommendations.



Further information can be found in *Burn It Down, Clean It Up*, Extension Fact Sheet FSA2170 found at www.uaex.edu

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Tank Clean-Out Recommendations for Common Herbicides



Tank Clean-Out Recommendations for Common Herbicides

Herbicide	No. of Recommended Rinses			
	1	2	3	4
2,4-D amine	W	1% A	W	
2,4-D ester	1% P	1% A	W	
Accent	W	1% A	1% A	W
Aim	W	3% A	W	
Anthem/ATZ/Flex	W	3% A	W	
Armezon	W	TC	W	
Assure II	W	1% A	1% A	W
Atrazine	D	W		
Authority MTZ/XL	W	1% A	W	
Axial XL	W	3% A	W	
Axiom	W	1% A	1% A	W
Balance Flex	W	TC	TC	W
Banvel	W	1% A	W	
Basagran	W	D	W	
Beyond	W			
Bicep II Magnum	W			
Bolero	1% A	W		
Boundary	W	D	D	W
Broadhead	W	3% A	W	
Callisto	W	4% A	4% A	W
Canopy/DF/EX/XL	W	1% A	1% A	W
Caparol 4L	W			
Capreno	W	4% B	W	
Clarity	W	TC	W	
Classic	W	1% A	1% A	W
Clearpath	W			
Clethodim/Select	W	D	W	
Clincher SF	W	TC	W	
Cobra	1% A	W		
Command	W	W	W	
Corvus	W	TC	TC	W
Cotoran	W			
Direx	W	W	W	
Distinct	W	TC	W	
Dual/II/Magnum	W	1% A	W	
Duet	W	TC	W	
Enlist Duo	W	TC	W	
Envive	W	TC	W	
Envoke	W	1% B	1% B	
Express	W	W		
Facet L	W	TC	W	
Fierce	W	1% A	W	
Finesse	W	1% A	1% A	W
FirstRate	W	W	W	
FirstShot	W	W	W	
Flexstar/GT	W	TC	W	
Fusilade DX/ Fusion	W	TC	W	
Gangster	W	1% A	W	
Glyphosate	W	D	W	
Goal2XL	0.25% S	W		
Gramoxone SL	W	TC	W	
Grandstand	W	TC	W	
Grasp/Xtra	W	TC	W	
Guardsman Max	W	TC	W	
Halex GT	W	4% A	4% A	W

	Solution
A	Ammonia Solution (3%/gal household ammonia)
B	Bleach Solution
D	Detergent Solution
P	Petroleum Product (diesel or kerosene)
S	Non-ionic Surfactant
TC	Commercial Tank Cleaning Solution (Follow label instructions)
W	Water

Herbicide	No. of Recommended Rinses				
	1	2	3	4	5 & 6
Harmony Extra	W	W			
Harmony GT	W	4% A	4% A	W	
Harness	TC	W			
Huskie	W	1% A	1% A	W	
Laudis	W	TC	4% B	W	
Layby Pro	W	W	W		
Leadoff	W	W			
League	TC	1% A	W		
Lexar EZ	W	4% A	4% A	W	
Liberty	W	TC	W		
Linex	W	W	W		
Londax	W	TC	7% A	W	
Marksman	W	TC	W		
Metolachlor	W	1% A	W		
MSMA	W	1% A	W		
Newpath	W				
Obey	W	W	W		
Osprey	W	1% A	1% A	W	
Outlook	W	TC	W		
Paraquat	W	TC	W		
Peak	W	1% A	W		
Permit/Plus/HaloMax	W	1% A	1% A	W	
Poast/Plus	W	1% A	1% A	W	
PowerFlex HL	1% A	1% A	W		
Prefix	W	1% A	1% A	W	
Prowl H2O	W	TC	W		
Python	1% A	W			
Realm Q	W	1% A	W		
Rebel EX	W	TC	W		
Reflex	TC	W			
Regiment	TC	1% A	1% A	W	
Resolve Q	W	W			
RiceBeaux	TC	1% A	1% A	1% A	
RicePro	TC	1% A	1% A	1% A	1% A & W
Rice-Star HT	W				
Rowel/Rowel FX	W	TC	W		
Scepter	D	W			
Sencor	D	D	D	W	
Sequence	TC	W			
Sharpen	W	TC	W		
Solicam	W	TC	W		
Sonic	TC	W			
Spartan/Charge	TC	W			
Stam M4/Riceshot	TC	1% A	1% A	1% A	1% A & W
Staple LX	1% A	1% A	1% A	1% A	W
Storm	W	1% A	W		
Strada/Pro/XT	W	1% A	W		
Suprend	2% A	2% A	W		
Surpass	W	TC	W		
Treflan	D	D	D	W	
Ultra Blazer	W	1% A	W		
Valor	W	1% A	W		
Verdict	W	1% A	W		
Warrant	TC	W			
Zidua	W	1% A	W		

Highlighted Products

Applicators should pay special attention to label recommendations when cleaning out **highlighted products**. Wettable powders are more prone to collect in filters, boom and nozzle bodies. Ensure proper clean-out by disassembling, inspecting and cleaning trouble areas when using these products. Also, many growth-regulating herbicides can be particularly destructive to sensitive crops even in extremely small concentrations. Ensure proper clean-out by using proper soaking procedures, and always refer to product labels for any clarifications.