

WideARmatch™ Herbicide

Supplement to Bulk Storage and Handling Guide

This product-specific information supplements the Corteva Agriscience™ “Bulk Storage and Handling Guide”. Use these documents together to understand the requirements for a bulk storage facility of this product. To obtain additional copies of this Bulk Storage & Handling Guide, or this product-specific Supplement, see <https://BulkHandlingGuides.corteva.us> or contact your Corteva Territory Manager or Sales Representative.

General Storage Comments

WideARmatch™ is a herbicide with easy handling characteristics. Periodic tank turnover is not necessary for this product, but after each delivery and prior to the use season is good practice. Further detail guide is in ‘Mixing Requirement’ in ‘Bulk Tank Material of Construction and Requirements’ section. Due to its flash point of 141.1 °F, it is subject to fire codes for combustible liquids. Indoor tanks must have an emergency venting capability, and both emergency and normal vents must be piped to outside if the tank is indoors. All tanks must be non-combustible (i.e. no poly tank). See ‘Venting Requirements’ section of ‘Bulk Tank Material of Construction and Requirements’ for detail information.

Product Density vs. Temperature

Temperature °F (°C)	23 (-3.5)	32 (0)	50.1 (10)	68.1 (20)	86 (30)	
Density (lb./gal.)	9.066	9.041	8.971	8.902	8.834	

Flash Point, NFPA Rating, Storage Temperature, and Signal Word

Flash Point ¹ °F (°C)	NFPA 704 Diamond Ratings			Min. Storage Temperature °F (°C)	EPA Signal Word
	Health	Flammability	Reactivity		
> 141.1 (60.6)	3	2	0	See note	Warning

WideARmatch™ has potential to crystallize in extreme sub-freezing temperature, but this has not been observed yet. Typically, WideARmatch™ gets viscous but flowable under extreme sub-freezing temperature. However, it does not crystallize under extreme sub-freezing temperature. On warming, it becomes more flowable without phase separation.

Material / Product Compatibility	Rating	Comment
Santoprene	OK	Preferred elastomers.
Stainless Steel (304 and 316), Aluminum (5052 and 6061)	OK	Preferred tank materials
HDPE (High-density polyethylene), Acetal, Teflon and UHMW (Ultra-high-molecular-weight polyethylen2).	OK	Preferred plastic materials for pipe and others. Do not use these plastics as tank materials.
Silicone Rubber	Caution	Softening is expected. Use with caution and require periodic monitoring.
Carbon Steel	Caution	Moderately corrosive. Use it with caution.
LDPE (Low-density polyethylene), Nylon and Poly Propylene	Caution	Slight absorption is expected. Use it with caution. Do not use these plastics as tank materials.

¹ The flash point of a liquid is the minimum temperature at which it gives off sufficient vapor to form an ignitable mixture with the air near the surface of the liquid or within the test vessel used.

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Buna-N, Neoprene, SBR, EPDM, Hypalon, and Viton	No	Severe swelling and absorption are expected. Material softening is expected. Not recommended.
Copper (CDA122) and Brass (CDA 260)	No	Severely corrosive. Not recommended.
Black ABS and PVC	No	Disintegrates. Not recommended

Bulk Tank Material of Construction and Requirements

Material of Construction	Stainless steel is preferred. Aluminum tanks are acceptable. Polyethylene bulk tanks are not allowed due to National Fire Protection Association Code 30 "Flammable and Combustible Liquids Code".	
Venting Requirements	Self-closing Emergency Relief Vent (ERV) capability and pressure relief valves (PRV) required due to flash point. Indoor tanks must have ERV and PRV piped to outside the building.	
Couplers	Standard 2" Kamlok ² Style Adapter with cap for receiving bulk deliveries.	
Mixing Requirement	Mix the bulk tank well after each delivery and prior to the use season. At minimum, circulate at least twice the tank volume. Off-season mixing is not required, however, mixing monthly is a good practice.	

Refillable Container Handling

DOT	Regulated as a hazardous material by the U.S. Department of Transportation in package sizes greater than 2031 L. Containers over this size must meet DOT packaging requirements for a UN3082, Packing Group III, material, in addition to the EPA Pesticide Container and Containment Rules.	
Material of Construction	Stainless steel is preferred. High-density polyethylene refillable container is allowed.	
Mixing	WideARmatch™ turnover/recirculation is not necessary. However, it is good practice to turn the product over at least twice of the tank volume especially when the product has been stored in below 20 °F. Off-season mixing is not required, however mixing monthly is a good practice. Before recirculating the product, allow the product to warm above 20 °F	
Couplers	Standard couplers are acceptable.	

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