

WideMatch[®] Herbicide:

Supplement to Bulk Storage and Handling Guide

This product-specific information supplements the Dow AgroSciences “Bulk Storage and Handling Guide”.
Use these documents together to understand the requirements for a bulk storage facility of this product.
The Bulk Storage and Handling Guide is available at <http://www.dowagro.com/rc/steward/handling.htm>

General Storage Comments

WideMatch herbicide handles well in bulk, but has a flash point of 155°F and is therefore 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. not poly.

Product Density vs. Temperature

Temperature °F (°C)	20 (-7)	30 (-1)	40 (4)	50 (10)	60 (16)	70 (21)	80 (27)	90 (32)
Density (lb./gal.)	8.87	8.83	8.79	8.75	8.71	8.67	8.64	8.60

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		
155 (68)	2	1	0	-40 (-40). See note.	Caution

WideMatch has theoretical potential to crystallize in extreme sub-freezing whether, but this has not been observed in the field. Typically, the material gets viscous, but does not crystallize. On warming, it becomes fluid with no phase separation.

Material / Product Compatibility	Rating	Comment
Stainless Steel, Aluminum	OK	
Santoprene, PET, Teflon	OK	Good compatibility.
Polyethylene (high-density, low-density, fluorinated)	OK	Some change in tensile strength.
Carbon Steel	Caution	Corrosive. Do not use mild steel for tanks. Not recommended for piping. May darken product.
Tin	Caution	Slightly corrosive. May cloud product.
EPDM, Viton	Caution	Swells. Not generally recommended. May be suitable for trapped gaskets.
Hypalon	Caution.	Not recommended due to softening and absorption.
Nylon	Caution	Little absorption or softening, but loses tensile strength.
Copper, Brass, Bronze, Zinc	No	Do not use. Corrosive to severely corrosive. May discolor product dark green and/or create solids.
Nitrile, Neoprene,	No	Swells severely and softens.
PVC	No	Due to softening and absorption.
Tygon R-3603	No	

Bulk Tank Material of Construction and Requirements

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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Material of Construction	Stainless steel preferred. Polyethylene bulk tanks are not allowed due to National Fire Protection Association Code 30 “Flammable and Combustible Liquids Code”. Aluminum is acceptable. Epoxy / phenolic lined mild steel allowed. Do not use unlined mild steel.
Venting Requirements	Self-closing ERV capability² and PVRV required due to flash point. Indoor tanks must have ERV and PVRV piped to outside the building.
Couplers	Standard.
Mixing Requirement	Theoretically, may form crystals if stored below minimum temperature or solvent is allowed to evaporate; but this has not been observed in the field. If crystals form, circulate tank contents until crystals are dissolved.
Refillable Container Handling	
DOT / EPA	This product is / is not regulated by US Department of Transportation for various modes of transport. Container must meet EPA Pesticide Container and Containment Rule requirements. Use UN/DOT approved containers. See DAS bulk guide for additional general requirements.
Material of Construction	Stainless steel is preferred. Polyethylene refillable containers allowed. Mild steel tanks are not allowed due to potential for corrosion. Do not use aluminum.
Mixing	Circulation is likely unnecessary, but circulate at least twice the tank volume once before season if stored below 20°F for extended time as a precaution. Allow product to warm above 20°F first.
Couplers	Standard 2” Kamlok ³ Style Adapter with cap for receiving bulk deliveries.

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² Size of the ERV should be determined using NFPA 30 Flammable and Combustible Liquids Code, or other appropriate code.

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