

FulTime[®] NXT[®] 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/stewardship/agchemicals/handling_guides.htm

General Storage Comments

FulTime[®] NXT herbicide is a suspension that requires mixing in bulk.

CAUTION: Make sure that small amounts of oils or petroleum solvent based products (e.g. Surpass[®] NXT) are not present in tanks converted to FulTime[®] NXT. Small amounts could cause thickening.

Product Density vs. Temperature

Temperature °F (°C)	28 (-2)	30 (-1)	40 (4)	50 (10)	60 (16)	70 (21)	80 (27)	90 (32)
Density (lb./gal.)	9.38	9.37	9.35	9.33	9.3	9.28	9.26	9.23

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

Flash Point l °F (°C)	NFPA 704 Diamond Ratings			Min. Storage Temperature °F (°C)	EPA Signal Word
	Health	Flammability	Reactivity		
>200 (>93)	2	1	1	50 (10)	Caution

Formulation contains water and will freeze, but has no history of problems upon thaw. Circulate product after thaw. Drain plumbing for protection against freeze damage.

Material / Product Compatibility	Rating	Comment
Stainless Steel, Heresite[™]-lined steel	OK	
High-density polyethylene (HDPE), Teflon[™] , polypropylene(PP), polyvinylidene difluoride (PVDF)	OK	
Aluminum	No	
Polyvinyl chloride (PVC)	No	
Mild Steel	No	Moderate corrosion due to water in formulation. Contact with mild steel may cause color change and reduce product's ability to emulsify with water.

Bulk Tank Material of Construction and Requirements

Material of Construction	304 Stainless steel is preferred. Mild steel tanks are not allowed due to corrosion from aqueous product. If state and local laws permit, existing high density polyethylene (HDPE) storage tanks may be utilized if the tank is free of cracks, UV degradation or other signs of aging or structural defects. Dow AgroSciences will not bear risk or liability associated with the use of polyethylene bulk tanks.
Venting Requirements	Self-closing PVRV Required on this product to minimize moisture loss from the formulation, avoiding any surface “skinning” or formulation evaporation.
Couplers	Standard 2” Kamlok ² Style Adapter with cap for receiving bulk deliveries.

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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Mixing Requirement	<p>Circulate twice the tank volume after each delivery and just before the season.</p> <p>The active ingredients of these suspension products do not tend to separate or stratify, but viscosity can increase if product is allowed to dry out, sit without mixing, or be exposed to extended heat. Shearing the product with a pump reduces viscosity of thickened product. Site the tank, if possible, in the shade or indoors to avoid extreme heat.</p>
Pump	<p>Three horsepower pump motors as a minimum are required; however, five horsepower motors are highly recommended for all products. A double mechanical seal pump is recommended for products containing suspended solids to extend seal life. Double mechanical seals are recommended, but not required for other products.</p>
Refillable Container Handling	
DOT	<p>Not regulated by US Department of Transportation; however, containers must meet EPA requirements specified in the Pesticide Container & Containment Rule.</p>
Material of Construction	<p>Stainless steel is preferred. Polyethylene refillable containers allowed. Mild steel tanks are not allowed due to potential for corrosion.</p>
Mixing	<p>Preferably, store in bulk tanks rather than refillable containers during the off-season.</p> <p>Or, circulate for an hour or at least twice the tank volume just before and then weekly during the use season.</p> <p>The active ingredients of these suspension products do not tend to separate or stratify, but viscosity can increase if product is allowed to dry out, sit without mixing, or be exposed to extended heat. Shearing the product through a pump reduces viscosity of thickened product. Site the tank, if possible, in the shade or indoors to avoid heat.</p> <p>FulTime[®] NXT stored in refillable containers in the off-season can be sheared or mixed by pumping the entire contents over to another refillable container prior to the season.</p> <p>Avoid allowing small heels of product to stand between seasons.</p>
Couplers	<p>Standard</p>

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