

FulTime[®] NXT 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://www.corteva.us/Resources/Bulk-Storage-and-Handling-Guides.html> or contact your Corteva Territory Manager or Sales Representative.

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	9.30	9.28	9.26	9.23

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		
>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	
HDPE, Teflon [™] , Polypropylene, polyvinylidene (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

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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Bulk Tank Material of Construction and Requirements	
Material of Construction	<p>304 or 316 Stainless steel are 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. Corteva will not bear risk or liability associated with the use of polyethylene bulk tanks.</p> <p>It is recommended that valves/enclosures are replaced annually.</p>
Venting Requirements	<p>Self-closing PVRV Required on this product to minimize moisture loss from the formulation, avoiding any surface “skinning” or formulation evaporation.</p>
Couplers	<p>Standard 2” Kamlok Style Adapter with cap for receiving bulk deliveries.</p>
Mixing Requirement	<p>Make sure the product temperature is in the range of 40°F and 100°F when mixing.</p> <p>After each delivery and prior to first in-season use, the product should be recirculated long enough to provide a minimum of 3 tank turns in the bulk tank.</p> <p>In addition, when held in a bulk tank during the use season, recirculate the product every 30 days. Recirculation should be long enough to provide a minimum of 3 tank turns in the bulk tank.</p> <p>For example, 12000 gallons of product stored in a tank with a recirculation pump that has a capacity of 100 gallons/minute (i.e., 6000 gallons/hour), would require around 6 hours of recirculation.</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. Avoid entrainment of air into the product as this can cause difficulties in handling. Site the tank, if possible, in the shade or indoors to avoid extreme heat. Do not use air to mix tank contents. Do not free-fall products during loading or use mixing that result in significant splashing.</p>
Pump	<p>Five horsepower pump motors as a minimum are required. A pressure sealed pump is recommended for use. (e.g., 5 HP, Single or 3 phase, 2” Scot™ Pressure Seal Pump [Viton™]).</p>

Refillable Container Handling	
DOT / EPA	Not regulated by US Department of Transportation; however, containers must meet EPA requirements specified in the Pesticide Container and Containment Rule.
Material of Construction	Stainless steel is preferred. Polyethylene refillable containers allowed. Mild steel tanks are not allowed due to potential for corrosion.
Mixing	<p>Preferably, store in bulk tanks rather than refillable containers (e.g., shuttles, IBC etc.) during the off-season. If the product is stored in refillable containers during off-season, circulate for around an hour or at least three times the container volume just before in-season use 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. Avoid entrainment of air into the product as this can cause difficulties in handling.</p> <p>Site the tank, if possible, in the shade or indoors to avoid heat. 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. Avoid allowing small heels of product to stand between seasons.</p> <p>DO NOT OVERFILL – It is recommended to leave no less than 10% headspace when adding to a refillable container.</p>
Couplers	Standard

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