

SureStart[®] II 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>

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General Storage Comments

SureStart® II herbicide is an easily handled suspension that should be mixed once just prior to the season.

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.)		9.05	9.03	9.02	9.00	8.99	8.97	

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		
>212 (>100)	1	0	0	None. Product can freeze.	Caution

See “Product Information & Safety” section of *Bulk Storage & Handling Guide* for more information.

Material / Product Compatibility	Rating	Comment
Stainless Steel, Glass Lined Steel, Tin	OK	Stainless steel preferred.
Silicone Rubber	OK	Preferred elastomer.
Polypropylene, Polyethylene (crosslinked, high-density and low-density), Delrin, Teflon (PTFE)	OK	Good resistance.
Butyl Rubber, EPDM Rubber,	Caution	EPDM & butyl rubber may swell and soften moderately, but have useful resistance
Nylon	Caution	Softens and loses tensile strength. May discolor. Not recommended.
Aluminum, Zinc, Galvanized Steel	No	Relatively severe pitting of aluminum at liquid-vapor interface. Solid corrosion byproduct formation possible.
Mild Steel, Brass, Bronze, Copper	No	Slight to moderate corrosion due to water in formulation. Will discolor formulation. May destabilize or separate formulation.
Hypalon, SBR, Polyurethane, Neoprene, Buna N (nitrile), Viton, PVC, Tygon	No	Severe swelling or absorption
ABS, Polycarbonate	No	Disintegrates, embrittles, or stress cracks
Carboline Phenoline 300/302 Lining	No	

Bulk Tank Material of Construction and Requirements

Material of Construction	Stainless steel is preferred. If state and local laws permit, existing polyethylene 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. Carbon steel tanks are not recommended because of moderate corrosion to the tank and likely discoloration or phase separation of the product. Aluminum tanks are prohibited.
Venting Requirements	Normal venting.
Couplers	Standard 2” Kamlok ² Style Adapter with cap for receiving bulk deliveries.
Mixing Requirement	Mix the bulk tank well after each delivery and just prior to the use season. At minimum, circulate

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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	at least twice the tank volume. Off-season mixing is not required, however, mixing monthly is a good practice.
Refillable Container Handling	
DOT	Not regulated by US Department of Transportation; however, containers must meet EPA requirements specified in the Pesticide Container & Containment Rule.
Material of Construction	Stainless steel is preferred. Polyethylene is allowed.
Mixing	SureStart® II should be mixed well just prior to the use season. Containers with built-in circulation are best. Over-the-top mixing may not be adequate to mix the bottom of the tank, which is the critical area. Where necessary, consider cascading product from source container into a target container, preferably while circulating the target container with a built-in pump that has circulation. View the bottom of the source container to assure no residues left behind.
Couplers	Standard couplers are acceptable.

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Always read and follow label directions.



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