

Supplement to Bulk Storage and Handling Guide

This product-specific information supplements the Corteve 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 BulkHandlingGuides.corteva.us or contact your Corteve Territory Manager or Sales Representative.

General Storage and Mixing

Enlist Duo® herbicide handles well in bulk. The product will remain in the liquid state down to -4°F (-20°C). Salt crystallization will not occur, even at cold temperature, but the product will freeze at temperatures below -4°F (-20°C).

When Enlist Duo freezes, a color change may occur. The active concentration remains homogeneous during freezing. If freezing or slush formation occurs with Enlist Duo totes or bottles due to cold temperatures, the recommendation is to move the product to temperatures above 68°F (20°C) for 24 hours. If this is not possible before product use, an alternative would be to mix it when temperature reaches 23°F (-5°C) until the normal appearance returns.

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)	-	9.86	9.83	9.81	9.78	9.76	9.73	9.70

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)	2	1	0	No Minimum*	Warning

* Formulation will start to freeze at temperatures below 8°F and will totally freeze at -4°F but can be brought back into form with proper mixing of one to two tank turnovers, or heating of product and container to 68°F (20°C) for 24 hours.

Material / Product Compatibility	Rating	Comment
Stainless Steel	OK	Essentially non-corrosive
Aluminum	OK	Slightly corrosive
Buna N, EPDM, Viton, Neoprene, Silicon Rubber, Delrin, Teflon	OK	Little to no effect
Polyethylene (Low & High Density, HMW), Polypropylene, Rigid PVC	OK	Little to no effect
Hypalon Rubber	OK	Slight swelling
Copper, Yellow Brass	NO	Moderately to Severely corrosive
Mild Steel	NO	Severely corrosive. Never use for tanks.
SBR Rubber, Nylon	NO	Swells moderately. Severe weight gain

¹The 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.

Bulk Tank Material of Construction and Requirements

Material of Construction	Stainless steel is preferred due to durability. Polyethylene is acceptable. Mild steel tanks are not allowed due to potential corrosion reaction. Aluminum exhibits slight corrosion (0.3-0.5 mil-inches per year in coupon tests).
Venting Requirement	No special venting requirements.
Couplers	Standard 2" adapters with cap for receiving bulk deliveries.
Mixing Requirement	Does not require mixing under normal storage unless product freezes.

Refillable Container Handling

DOT / EPA	This product is regulated by US Department of Transportation for certain volumes and modes. See the Transportation section of the MSDS. Containers must meet EPA requirements specified in the Pesticide Container & Containment Rule. See Corteva Agriscience bulk storage and handling guide at Bulk Storage and Handling Guides Corteva Agriscience™ for additional general requirements.
Material of Construction	Polyethylene and Stainless-steel refillable containers allowed. Mild steel tanks are not allowed.
Mixing	Does not require mixing under normal storage but could be required if product freezes in tote. Mixing would not be required if product temperature is raised to 20° C (68° F)
Couplers	Standard connections are acceptable.

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