

Enlist One™ 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.

This document is a preliminary version for the 2019-2020 season and will be updated after the 2020 season with further details for oil layer separation.

General Storage Comments

Enlist One herbicide handles well in bulk. However, some separation of the oil layer may occur if product is left in tank unattended (without agitation or dispensing) for several months. Monthly mixing is a recommended best practice during the time the product is not being dispensed. Product should be mixed before dispensing after overwintering in the tank. If freezing has occurred, product comes back into solution easily with mixing. Recirculate at least 2.5 volumes of the tank to ensure good mixing. If a tank is not emptied of Enlist One before new Enlist One is added to the tank, mixing should be completed to form a homogeneous solution. A jet nozzle in the tank is recommended to enable good mixing of the Enlist One. The jet nozzle should point up to promote mixing of the top layer.

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.)	-	10.085	10.056	10.027	9.998	9.968	9.937	9.906

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	1	0	No Minimum*	Warning!

*Formulation will freeze at temperatures below -4°F. Mixing should be completed after product thaws in Spring to ensure a homogeneous mixture.

Material / Product Compatibility	Rating	Comment
Stainless Steel	OK	Essentially non-corrosive
Aluminum	OK	Essentially non-corrosive
Buna-N, EPDM, Neoprene, SBR, Hypalon, Graphite	Not recommended	Swell and loss of strength are observed
Viton, Silicone, Teflon	OK	Little to no effect
HDPE, LDPE, Polypropylene, Rigid PVC	OK	Little to no effect
Copper, Carbon steel (1018)	Not recommended	Moderately corrosive
Brass CDA260	OK	Little to no effect

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Bulk Tank Material of Construction and Requirements	
Material of Construction	Stainless steel is preferred due to durability. Polyethylene is acceptable. Mild steel (carbon) is not allowed due to potential corrosion.
Venting Requirements	No special requirements necessary.
Couplers	Kamloc ² style adapters with cap for receiving bulk deliveries.
Mixing Requirement	Monthly mixing is recommended. Recirculate at least 2.5 volumes of the tank. Prior to adding new product in tank with existing leftover product thoroughly mix tank contents (at least one hour). If product overwinters in tank, mixing is necessary before dispensing.
Refillable Container Handling	
DOT / EPA	This product is 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	Polyethylene and stainless-steel refillable containers allowed. Mild steel (carbon) not allowed.
Mixing	No mixing is necessary if product is used during the season.
Couplers	Standard connections are acceptable.

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.

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