

Garlon® 3A 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://BulkHandlingGuides.corteva.us> or contact your Corteva Territory Manager or Sales Representative.

General Storage Comments

Garlon 3A herbicide handles well in bulk. Crystallization is not generally an issue, although there is a recommended minimum storage temperature. The 110°F flash point makes it a combustible liquid; thus fire code dictates a number of storage requirements including emergency venting, venting to outside of buildings, and a non-combustible bulk tank.

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.)						9.4		

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		
>110 (>43)	3	2	0	28 (-2)	Danger

May form crystals if stored below minimum storage temperature or solvent is permitted to evaporate. If crystals form, circulate tank contents until crystals are dissolved.

Material / Product Compatibility	Rating	Comment
Mild Steel, Stainless Steel	OK	Essentially non-corrosive
Buna-N, EPDM, Silicone Rubber, Polyethylene (Cross-linked, Low & High Density, HMW), Polypropylene, Rigid PVC, Teflon	OK	Little to no effect
Viton, Nylon 6/6	OK	Swells slightly
Neoprene, Plasticized PVC	OK	Shrinks slightly
Copper, Yellow Brass	CAUTION	Slightly corrosive
Vellumoid	NO	Swells moderately. Severe weight gain
Aluminum, Tin, Zinc	NO	Corrosive

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	Stainless steel is preferred. Polyethylene bulk tanks are not allowed due to National Fire Protection Association Code 30 "Flammable and Combustible Liquids Code". Do not use aluminum.
Venting Requirements	Self-closing ERV capability and PVRV required due to flash point. Indoor tanks must have ERV and PVRV piped to outside the building.
Couplers	Standard 2" Kamlok Style Adapter with cap for receiving bulk deliveries.
Mixing Requirement	Does not require mixing under normal storage. The active ingredient is in solution and may crystallize below the minimum storage temperature. If maintained above minimum storage temperatures, these products do not require tanks with circulation capability. If crystals form, wait until temperatures are above 40°F, then circulate until crystals are dissolved
Couplers	Standard couplers.

Refillable Container Handling

DOT / EPA	This product is regulated by US Department of Transportation for various modes of transport. Use only UN/DOT approved containers.
Material of Construction	Stainless steel is preferred. Polyethylene refillable containers allowed. Mild steel tanks are allowed.
Mixing	The active ingredient is in solution and may crystallize below the minimum storage temperature. If maintained above minimum storage temperatures, these products do not require tanks with circulation capability. If crystals form, wait until temperatures are above 40°F, then circulate until crystals are dissolved.
Couplers	Standard couplers.

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Rev. 08/2020

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