

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 BulkHandlingGuides.corteva.us or contact your Corteva Territory Manager or Sales Representative.

General Storage Comments

Resicore[®] XL herbicide is a ZC formulation (a mix of CS and SC formulation types), which has excellent handling properties. If it is the first time Resicore XL is added into a bulk storage tank which was previously used for a product other than Resicore[®] herbicide, it is critical that the tank be cleaned thoroughly prior to the addition of Resicore XL into the tank.

If Resicore XL is added into a tank which was previously used for Resicore, drain all the previous product (i.e., Resicore) from the tank before adding Resicore XL. Make sure there are no solid residues present in the tank from the previous product (i.e., Resicore). Thorough cleaning of the tank is RECOMMENDED but NOT REQUIRED. However, it IS REQUIRED to thoroughly mix the contents (~3-4 tank turns) immediately after Resicore XL is added into the tank containing a trace amount of Resicore to avoid any bulk storage issues. If using a filter while recirculating the product or pumping it off to intermediate bulk containers (IBC) or totes, use a screen that is 12 mesh or coarser.

Prior to first use in-season, the bulk tank/tote should be recirculated long enough to provide 3 turns of the product. Example: 2400 gallons of product stored in a tank with a recirculation pump that has a capacity of 15 gallons/minute (~900 gallons/hour), would require roughly 8 hours of recirculation. The bulk tank should be assessed monthly during the application season, and the bulk tank should be recirculated additionally only if significant top clearing is observed.

Bulk stored product (tanks and totes) may freeze in winters (depending on the storage location and ambient temperature in the region), however, freezing will not hurt the product. When freezing, Resicore XL has shown little to no expansion properties, however, it is a best practice to allow some head space in bulk tanks to allow for expansion and contraction. Once the product thaws after winter storage, mixing is required to obtain a homogenous product just prior to the use season. Prior to mixing the tank for the first time after freezing, make sure there are no visible ice crystals in the product, which can damage the recirculation pump.

Do NOT use mild or carbon steel tanks for bulk storage of Resicore XL, stainless steel is preferred.

Stainless steel piping is required for all storage facilities. Use mild steel piping with caution and for temporary use of less than one month. The long-term use of mild steel piping can result in unexpected pipe failure during mixing or transfer operations which will result in product loss.

Periodic cleaning of bulk tanks is recommended. Tanks should be cleaned and inspected every two to three years. Tanks can easily be cleaned using normal high-pressure washers with a general soap cleaning solution. High pressure washers are recommended because they are efficient at cleaning the tanks and they generate minimal wastewater. Wastewater from cleaning the tanks must be collected and disposed following local regulations and guidelines. After cleaning, the tank should be inspected for signs of corrosion or pitting on interior surfaces and welds to prevent tank failures when the tank is refilled.

Product Density vs. Temperature

Temperature °F	27	30	40	50	60	70	80	90
Density (lb/gal)	9.46	9.45	9.43	9.40	9.38	9.35	9.33	9.30

Flash Point, NFPA Rating, Storage Temperature and Signal Word

Flash Point ¹ °F	NFPA 704 Diamond Ratings			Min. Storage Temperature °F	EPA Signal Word
	Health	Flammability	Reactivity		
> 212.2	1	1	0	None (product can freeze)	Caution

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.

Material / Product Compatibility	Rating	Comment
Stainless Steel	OK	Required for bulk tanks
Carbon Steel, Aluminum, Copper, Brass	No	Moderate to severe corrosion due to the product's low pH.
Silicone, Teflon	OK	Recommended for gaskets and seals; including hose lining.
Buna N, Neoprene, SBR, EPDM, Hypalon, Viton, Santoprene	No	Will likely absorb product and lose strength. Swelling or disintegration possible.
HDPE, UHMW	OK	Likely acceptable for most application including hose lining/seals.
Nylon, Black ABS, PVC, LDPE, Polypropylene	No	Disintegrates, embrittles or stress cracks.

Bulk Tank Material of Construction and Requirements

Material of Construction	Stainless steel is preferred. If State and Local laws permit, existing poly storage tanks (high density) may be utilized if the tank is free of cracks, UV degradation or other signs of aging or structural defects for no more than one month. Corteva Agriscience will not bear risk or liability associated with the use of poly bulk tanks. Carbon steel and aluminum tanks are prohibited.
Venting Requirement	Normal venting is recommended.
Couplers	Standard 2" Kamlok 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 at least 3 volumes of the tank to ensure mixing. Off-season mixing is not required, however, monthly mixing during the time the product is not frozen is highly recommended. The use of jet mixers within the tank are also highly recommended to increase the mixing capabilities of the recirculation system.
Piping and Rubber Tubing	Stainless steel piping is the recommended standard. CRITICAL INFORMATION: The use of automotive style heater hose as a portion or all of the plumbing on a storage tank is strictly FORBIDDEN. If rubber tubing must be used as a portion of the plumbing, the rubber tubing MUST be lined with either Teflon or HDPE (high density polypropylene). When using lined tubing, extreme caution must be used to ensure the lining material fully contacts any metal tubing barbs. Failure to ensure the lining materials contact the metal fittings will result in a failure of the tubing at the fitting. All lined tubing used within a bulk system MUST be inspected prior to each use of the system to make sure the rubber hose has not swelled or softened from exposure to the product.

Refillable Container Handling

DOT/EPA	This product is not 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 Corteva Agriscience bulk storage and handling guide at BulkHandlingGuides.corteva.us for additional general requirements.
Material of Construction	Stainless steel is preferred. Polyethylene (high density) is allowed. Corteva Agriscience will not bear risk or liability with the use of polyethylene bulk tanks. Inspect each polyethylene tank for cracks, discoloration, or signs of structural flaws prior to each use.
Mixing	Resicore® XL herbicide should be mixed well just prior to the use season and the first use of the tank. See the General Storage Comments Section above for guidance around mixing when filling the tank for the first time with Resicore XL. Containers with built-in circulation are the best and are preferred. 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 the 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 are left behind.
Couplers	Standard couplers are acceptable.

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Resicore® and Resicore® XL herbicides are not registered for sale or use in all states. Resicore and Resicore XL are not available for sale, distribution or use in Nassau and Suffolk counties in the state of New York. Contact your state pesticide regulatory agency to determine if a product is registered for sale or use in your state. Always read and follow label directions.

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