

DuraCor® Herbicide

Supplement to Bulk Storage and Handling Guide

This product-specific information supplements the Corteva Agriscience™ “Bulk Storage and Handling Guide”¹. Use these documents together to understand the requirements for a bulk storage facility for 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

- DuraCor® herbicide is an SC formulation which has excellent handling properties. If it is the first time DuraCor herbicide is added into a bulk tank which was previously used for a different product, it is critical that the tank be cleaned thoroughly prior to the addition of DuraCor herbicide.
- After each delivery and prior to first in-season use, the product should be recirculated long enough to provide a minimum of 3 tank turns in the bulk tank. In addition, when held in a bulk tank during the use season, recirculate the product every 60 days. Recirculation should be long enough to provide a minimum of 3 tank turns in the bulk tank. For example: 10,000 gallons of product stored in a tank with a recirculation pump with a capacity of 100 gallons/minute (~6,000 gallons/hour), would require roughly 5 hours of recirculation.
- The use of jet mixers within the tank are also highly recommended to increase the mixing capabilities of the recirculation system. Avoid air entrapment into the product as this can cause difficulties in handling.
- Bulk stored product (tanks and totes) may freeze in winter (depending on the storage location and ambient temperature in the region). However, freezing will not negatively impact the product. Once the product thaws post 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, otherwise pump damage may occur.

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)	Frozen	8.86	8.836	8.812	8.788	8.764	8.74	8.716

Product Viscosity vs. Temperature

Temperature °F (°C)	20 (-7)	41 (5)	50 (10)	60 (16)	70 (21)	80 (27)	90 (32)	
Viscosity (cP)	Frozen	80	71.3	66	63.5	60.5	58.3	

Flash Point, NFPA Rating, Storage Temperature, and Signal Word

Flash Point ² °F (°C)	NFPA 704 Diamond Ratings			Min. Storage Temperature °F (°C)	Freeze Point °F (°C)	EPA Signal Word
	Health	Flammability	Reactivity			
> 212° (>100°)	0	1	0	41 (5)*	23 (-5)	Caution

DuraCor herbicide does freeze when stored below -5°C (23°F) and expands when frozen. If product is left within lines and allowed to freeze, lines may rupture. Care should be exercised to ensure product is not left in circulation lines when exposed to cold weather climates. If the product does freeze in bulk tank, ice can float to the top of the container, and will require circulation to homogenize. Material can also phase separate at high temperatures. Circulation has been shown to be effective to homogenize.

*This is the lowest temperature that product is still in a flowable state.

¹ Subject to local laws and individual conditions.

² 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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Material / Product Compatibility	Rating	Comment
Stainless Steel, Glass Lined Steel, Tin	OK	
Butyl, EP Rubber, Silicone, Delrin, Teflon	OK	
Polypropylene, Polyethylene (crosslinked, high-density and low-density),	OK	
Cast Iron	Caution	Cast iron has not been tested
Aluminum	OK	
Zinc	Caution	Zinc has not been tested
EPDM	Ok	
Nylon	Caution	Conditionally acceptable at 60-day storage
Mild Steel, Brass, Bronze, Copper	Caution	Conditionally acceptable at 60-day storage
Hypalon, SBR, Polyurethane, Neoprene, Buna N (nitrile), Viton, PVC,	OK	
ABS, Polycarbonate	OK	
Carboline Phenoline 300/302 Lining	Caution	Materials have not been tested

Bulk Tank Material of Construction and Requirements

Construction	Stainless steel (304/316) is most acceptable. Aluminum 5052 and 6061 is also effective.
Venting Requirements	No ventilation required
Couplers	Avoid copper and brass couplers and fittings. Stainless Steel is ideal. Standard 2" Kamlok Style Adapter with cap for receiving bulk deliveries.
Pumps	Self-priming centrifugal pump or positive displacement pump (gear, vane or lobe) that are equipped with a pressure relief valve bypass either around the pump or back to the bulk tank. Pumps should be equipped with a double mechanical seal.
Screens	40 mesh or larger screens are recommended for DuraCor.
Clean Up	Soap and water should be used as the clean-up solvent for both minor spills and for cleaning out tanks between aqueous based products. Dispose of cleaning water following all local regulations.

Refillable Container Handling

DOT	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.
Material of Construction	Stainless Steel is preferred. Polyethylene is allowed. Corteva 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	DuraCor herbicide should be mixed well just prior to the use season, first use of the tote/IBC/PRC and then monthly during the use season. Containers with built-in circulation are the best and preferred. Bottom-to-top recirculation may not be adequate to mix the bottom and corners of the tank, which are the critical area. Mixer blades/impellers attached to the top fill port may be recommended. Air mixing or agitation involving air entrainment should not be used.
Couplers	Avoid copper and brass couplers and fittings. Stainless Steel is ideal. Standard 2" Kamlok Style Adapter with cap for receiving bulk deliveries.

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Bulk Product Tank Cleaning

Procedure:

1. Completely drain the tank and visually inspect the interior of the tank and remove any loose solid material
2. A typical high-pressure washer is recommended for cleaning as they are efficient, and generate (2-5 gpm) minimal wastewater
3. Using ambient temperature water or caustic solution, spray bottom first with water to loosen any residue in the sump or cone
4. Continue pressure wash under roof shell, then inside wall of tank, working from top of the walls down.
5. If possible, circulate rinse water for 10 minutes in the tank and pipe. (Add water volume as needed to avoid starving the pump)
6. Completely drain the tank using the system pump, preferably exiting through the meter
7. Repeat steps 4-7 two more times
8. Wastewater from cleaning the tanks must be collected and used or disposed of following Federal, State, and Local regulations and guidelines
9. After cleaning, inspect the tank for signs of corrosion or pitting on interior surfaces and welds. Inspect the pump, pipes, hoses, and fittings for fitness for purpose
10. Document cleaning and inspection. Corteva requires a new Tank Inspection Form (TIF) confirming the tank is clean and was inspected prior to switching to a new Corteva product.

Always wear proper PPE as recommended on the product's SDS/label during inspection and cleaning

NOTICE: The information, procedures, methods, and recommendations herein are presented in good faith and are believed to be accurate and reliable as of the publication date but may well be incomplete and/or not applicable to all conditions or situations. No representation, guarantee, or warranty is made as to the accuracy, reliability, or completeness of said information, procedures, methods, and recommendations. Nor is any representation, guarantee, or warranty made that application or use of any of the same will avoid hazards, accidents, losses, damages, injury of any kind to persons or property, or give desired results, or that the same will not infringe patents of Corteva Agriscience™. Readers must satisfy themselves to the suitability of said information, procedures, methods, and recommendations prior to use.

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