



DuPont Disinfectants
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Virkon S : Reduction of 1:100 solution freezing point (Canadian market)

The freezing point temperature of a 1 :100 (1%) use solution of Virkon S may be reduced by the admixture of limited quantities of monopropylene glycol (MPG) to the water, before dilution of the Virkon S.

The table below shows the potential effect of adding the glycol on the resultant Virkon S 1 :100 solution, on both freezing point & the solution shelf-life.

Virkon S			
Solvent	Virkon S concentration in final mixture	Protection from freezing down to temperature (°C)	Recommended <i>maximum</i> shelf life of the prepared solution
Water : 100%	1.0%	- 11	7 days
90% water: 10% MPG	1.0%	- 14	3 days
80% water: 20% MPG	1.0%	- 17	2 days

The maximum recommended inclusion of the monopropylene glycol for a Virkon S 1 :100 solution is 20% v/v. Higher levels of the glycol may significantly destabilise the prepared disinfectants solution .

Alternate types of glycol additive may have a notably different effect on the solution stability & the degree of freezing point reduction. Contact Dupont Disinfectants for further advice.

Dilution using seawater (or any saline source water) with the glycol additive is not recommended, & solutions should be prepared using freshwater only.