



## Formulation

Name	<b>WATERLESS HAND CLEANER WITH STEPOSOL® SB-W AND D-LIMONENE (75:25)</b>	
No.	924	
Description	Waterless hand cleaner used to remove grease, dirt, and ink from hands without the use of soap.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u>
	Deionized Water	q.s. to 100
	MAKON® 10	11.0
	NINOL® 11-CM	4.0
	STEPOSOL® SB-W*	25.5
	Oleic Acid	1.6
	Triethanolamine, 85%	0.4
	d-Limonene	8.5
	Preservative	q.s.
	<b>Total</b>	<b>100.0</b>
Procedure	Add Oleic acid, Triethanolamine, MAKON® 10, NINOL® 11-CM, d-Limonene, and STEPOSOL® SB-W together and mix until clear. Heat to 70°C-80°C. Slowly add Deionized Water with mixing. Once dispersed, begin cooling to room temperature. A thick gel will form.	
Physical Properties	Appearance at 25°C	Ringling gel
	pH, 10% in IPA	7.5 - 9.0
	Viscosity at 50°C, cps	3000 - 4000
	Density at 50°C, lbs./gal	7.32
	Flash Point (PMCC), °F	201
Storage/ Stability	1 Month at 4°C	Stable
	1 Month at 25°C	Stable
	1 Month at 50°C	Stable
	Freeze/Thaw, 10 Cycles	Pass
Instructions for Use	Apply a small amount to hands. Rub and rinse off and/or wipe off.	
External Comment	* Using either STEPOSOL® SB-D or STEPOSOL® SB-W will produce differences in color or odor. STEPOSOL® SB-D will produce a lighter color and STEPOSOL® SB-W will produce a lower odor.	
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