



Formulation

Name	WATERLESS HAND CLEANER WITH STEPOSOL® SB-W AND D-LIMONENE (50:50)	
No.	925	
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*	17.0
	Oleic Acid	1.6
	Triethanolamine, 85%	0.4
	d-Limonene	17.0
	Preservative	q.s.
	Total	100.0
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	Ringing gel
	pH, 10% in IPA	7.5 - 9.0
	Viscosity at 50°C, cps	200 - 300
	Density at 50°C, lbs./gal.	7.95
	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 wipe off and/or rinse.	
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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Stepan Company
Northfield, Illinois 60093
Telephone (847) 446-7500

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