



Formulation

Name	WATERLESS HAND CLEANER #2 WITH STEPOSOL® SB-W AND D-LIMONENE (75:25)	
No.	924	
Description	Waterless hand cleaner used to remove grease, dirt, and ink from hands without the use of soap.	
Formulation	INGREDIENTS:	% by Weight
	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.
	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	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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For Additional Assistance	For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or 011-334-76-505-100 (Europe). For ordering assistance, call our Account Service Department at 1-800-457-7673. Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer's own study and the works of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information	

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