



# Formulation

Name	<b>WATERLESS HAND CLEANER WITH STEPOSOL® SB-W</b>	
No.	931	
Description	Waterless hand cleaner used to remove grease, dirt, and ink from hands without the use of soap.	
Formulation	<b>INGREDIENTS:</b>	<b>% by Weight</b>
	=== Phase 1 ===	
	STEPOSOL® SB-W*	34.0
	NINOL® 40-CO	4.5
	MAKON® 10	10.9
	Oleic Acid	1.7
	Solulan 75 (Amerchol) PEG 75 Lanolin	0.5
	=== Phase 2 ===	
	Triethanolamine, 99%	0.4
	Preservative	q.s.
	Deionized Water	q.s. to 100
	<b>Total</b>	<b>100.0</b>
Procedure	Combine ingredients of Phase 1 and heat to 70°C with mixing. In a separate vessel, combine Triethanolamine and Deionized Water of Phase 2 and heat to 70°C with mixing. Add Phase 2 to Phase 1 at 70°-75°C while mixing. Mix for 30 minutes and maintain temperature. Cool to room temperature with mixing. Add Preservative when temperature is below 50°C.	
Physical Properties	Appearance at 25°C	Yellow, opaque ringing gel
	pH at 50°C, as is	7.0-8.0
	Viscosity at 25°C, cps	Gel
	Density, lbs/gal	6.82
	Flash Point, °F (PMCC)	>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.	
Registered Trademarks of Stepan Company	MAKON® NINOL® STEPOSOL®	
For Additional	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.	

## Assistance

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