



Formulation

Name	CLEAR GEL HAND SOAP	
No.	1351	
Description	Suitable as a high-foaming base formulation, simply add color, fragrance, and additives to create a unique hand soap. This formulation can also be modified for low-viscosity, self-foaming pump applications.	
Formulation	INGREDIENTS:	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 ===	
	Deionized Water	q.s. to 100 Diluent
	STEOL® CS-270 C (or STEOL® CS-270 PLUS)	2.900 Surfactant
	NINOL® CAA	0.500 Viscosity Modifier
	=== Phase 2 ===	
	STEPANOL® WA-EXTRA HP	6.900 Surfactant
	AMPHOSOL® HCG	4.840 Secondary Surfactant
	Microcare® PE [Thor] Phenoxyethanol	0.750 Preservative
	=== Phase 3 ===	
	Citric Acid	0.015 pH Adjuster
	Sodium Hydroxide	0.001 pH Adjuster
	=== Phase 4 ===	
	Sodium Chloride	1.080 Viscosity Adjuster
	Total	100.000
Procedure	<p>Note: Batch is made at room temperature. No heating is needed.</p> <ol style="list-style-type: none"> 1. Add Deionized Water, STEOL® CS-270 C (or STEOL® CS-270 PLUS), and NINOL® CAA one at a time into the main vessel with regular mixing until batch is homogeneous. Ensure that the batch is clear before adding the next ingredient. 2. Add STEPANOL® WA-EXTRA HP, AMPHOSOL® HCG, and Microcare® PE on at a time with mixing to the main vessel with regular mixing until batch is homogeneous. 3. Add Citric Acid and Sodium Hydroxide to adjust pH to target value. 4. Add Sodium Chloride to adjust viscosity if needed. <p>**While this formulation provides a starting point, it is up to the end manufacturer to ensure their formulations and products meet all application regulations, including the New York 1,4-dioxane concentration limits.</p>	
Physical Properties	Appearance, as is	Clear to slightly hazy, stringy,
	pH, as is	flowable liquid
	Viscosity, LV63 at 12 rpm, cps	6.0-7.0
		2,000 - 6,000
Instructions for Use	Apply product to wet hands. Rub hands together to create a thick lather for at least 15 seconds. Rinse hands until clean.	
External		

Comment | Marketing Notes: BCI = 70. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Other non-Stepan ingredients were not evaluated. For further information on Stepan's BCI, visit www.stepan.com. STEOL CS-270 PLUS has a maximum residual 1,4-dioxane level of 10 ppm on an as-supplied basis.

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