



# Formulation

Name	<b>GENTLE, NON-STRIPPING HAND SOAP</b>	
No.	1378	
Description	An excellent starting point that looks and feels like one of the national leading brands – simply add color, fragrance, and your preferred additives to create a unique hand soap that washes away those pesky germs and dirt. Plus, this high-foaming formulation is easy to modify to a lower viscosity, perfect for self-foaming pump applications.	
Formulation	<b>INGREDIENTS:</b>	<b><u>% by Weight</u></b>
	=== Phase 1 ===	
	Deionized Water	69.745
	STEOL® CS-230 PC HP	22.680
	=== Phase 2 ===	
	AMPHOSOL® HCG-HP	5.025
	NINOL® CAA	1.000
	=== Phase 3 ===	
	Microcare® BDB (Thor) Benzyl Alcohol and Dehydroacetic Acid and Benzoic Acid	0.750
	Tetrasodium EDTA	0.050
	Fragrance	0.750
	=== Phase 4 ===	
	Citric Acid	q.s.
	Sodium Hydroxide	q.s.
	=== Phase 5 ===	
	Sodium Chloride	q.s.
	<b>Total</b>	<b>100.000</b>
Procedure	<ol style="list-style-type: none"> <li>1. Add Phase #1 ingredients to the main vessel with mixing until batch is uniform.</li> <li>2. Add Phase #2 ingredients, one-by-one, to the main vessel with mixing ensuring that the batch is uniform before adding the next item.</li> <li>3. Add Phase #3 ingredients to batch with slow mixing, ensuring that the temperature is &lt;40°C (&lt;104°F).</li> <li>4. Use Phase #4 ingredients to adjust pH as needed. Citric acid or sodium hydroxide in the form of granules or a solution can be used.</li> <li>5. Use Phase #5 ingredients to adjust viscosity as needed. Sodium chloride in the form of granules or a solution can be used.</li> </ol>	
Physical Properties	Appearance, as is	Clear, thick, flowable liquid
	pH at 25°C, as is	5.5
	Viscosity at 25°C (LV63 at 6 rpm), cps	3,000-9,000 (Target: 6,000)
Storage/Stability	2 months at 25°C	Stable
	2 months at 40°C	Stable
	Freeze/Thaw, 3 cycles	Pass
Instructions	Dispense product into hands, apply water, lather and rinse. Repeat as needed	

for Use

External  
Comment

Marketing Notes: BCI = 73. 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](http://www.stepan.com). Non-stripping is based on subjective hand washing analysis versus a "stripping" soap (i.e. a soap that leaves hands feeling tight and dry). A "non-stripping" soap does not leave hands feeling tight and dry.

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Assistance

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