



# Formulation

Name	<b>CONDITIONING HAND SOAP</b>	
No.	371	
Description	This hand soap provides both cleansing and softening properties.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u>
	=== Phase 1 ===	
	Deionized Water	q.s. to 100.0
	BIO-TERGE® AS-40 (or BIO-TERGE® AS-40 HP)	23.30
	AMMONYX® MO	5.00
	NINOL® 96-SL	3.50
	AMPHOSOL® CA	1.00
	Merquat 550 (ONDEO Nalco) Polyquaternium-7	0.25
	=== Phase 2 ===	
	Citric Acid	q.s.
	Fragrance, Dye, & Preservative	q.s.
	Sodium Chloride	q.s.
	<b>Total</b>	<b>100.0</b>
Procedure	<ol style="list-style-type: none"> <li>1. Add ingredients of Phase I, heat to 60°C, blend until homogeneous.</li> <li>2. Adjust pH to 6.0-7.0 with Citric Acid.</li> <li>3. Add Fragrance, Dye, and Preservative, if desired.</li> <li>4. Adjust to desired viscosity with Sodium Chloride.</li> </ol> <p>*Note: When formulating with BIO-TERGE® AS-40 HP, a greater amount of Citric Acid may be needed to adjust the pH within the recommended range as noted, than when formulating with BIO-TERGE® AS-40.</p>	
Physical Properties	Appearance	Clear yellow liquid
	pH	6.0-7.0
	Viscosity Profile, cps	
	as is	1,000
	0.5% sodium chloride	13,300
	1.0% sodium chloride	25,300
Storage/ Stability	Freeze thaw	Stable
	Elevated heat	Stable
External Comment	Marketing Notes: AMPHOSOL® HCA-HP may be a potential substitute for AMPHOSOL® CA. It should be noted that stability testing using this AMPHOSOL® HCA-HP has not been completed on this formulation, and in addition to the pH adjustment taking a greater amount of Citric Acid, the substitution may also yield slightly different physical properties.	
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	For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or	

For  
Additional  
Assistance

011-334-76-505-100 (Europe).

For ordering assistance, call our Account Service Department at 1-800-457-7673.

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