

Registered BIO-TERGE®

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Name	CLEAR LIQUID HAND SOAP	
No.	389	
Description	This liquid hand soap provides good cleansing and foaming.	
Formulation	INGREDIENTS:	% by Weight
	=== Phase 1 === Deionized Water BIO-TERGE® AS-40 (or BIO-TERGE® AS-40 HP) STEOL® CS-460 AMPHOSOL® CA NINOL® 40-CO	q.s. to 100.0 15.4 9.0 4.0 1.0
	=== Phase 2 === Citric Acid Fragrance, Dye, & Preservative Sodium Chloride	q.s. q.s. q.s.
	Total	100.0
Procedure	<ol> <li>Add the components in Phase 1 to Deionized Water and blend until clear.</li> <li>Adjust pH to 5.5-6.5 with Citric Acid.</li> <li>Add Fragrance, Dye, and Preservative, if desired.</li> <li>Adjust to desired viscosity with Sodium Chloride.</li> <li>*Note: When formulating with BIO-TERGE® AS-40 HP, a greater amount of C to adjust the pH within the recommended range as noted, than when formulating AS-40.</li> </ol>	
Physical Properties	Appearance, as is pH, as is Viscosity, cps 0.0% Sodium Chloride 0.5% Sodium Chloride 1.0% Sodium Chloride 3.0% Sodium Chloride	Light yellow liquid 5.5-6.5 25 25 50 800
Storage/ Stability	3 months at 25°C 1 month at 42°C 1 month at 50°C Freeze/thaw, 1 cycle	Stable Stable Stable Pass
Instructions for Use	Apply to wet hands, lather, and rinse.	
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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**NINOL® AMPHOSOL®** 

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.

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