



Formulation

Name	BOUNDLESS BASE: PERSONAL CARE CLEANSING	
No.	1610	
Description	This formula is a versatile sulfate-free surfactant concentrate designed for limitless formulation creativity. Powered by BIO-TERGE® AS-40 HP and AMPHOSOL® HCG-HP, it dilutes seamlessly into shampoos, body washes, and hand soaps. Whether you're targeting economy, mid-tier, or prestige, this combination of Sodium C14-16 Olefin Sulfonate and Cocamidopropyl Betaine adapts with ease—delivering gentle cleansing, rich foam, and boundless potential.	
Formulation	INGREDIENTS:	<u>% by Weight</u> <u>Functionality</u>
	=== Phase 1 === AMPHOSOL® HCG-HP	53.330 Viscosity Builder
	=== Phase 2 === BIO-TERGE® AS-40 HP	41.026 Foaming and Cleansing Agent
	=== Phase 3 === Deionized Water	q.s. to 100 Carrier
	Total	100.000
Procedure	<ol style="list-style-type: none"> 1. Add AMPHOSOL® HCG-HP to the main tank and begin regular mixing. 2. Begin heating batch to 70°C-75°C (158°F-167°F). 3. In an auxiliary tank, charge the BIO-TERGE® AS-40 HP and the Deionized Water. Begin regular mixing. Start heating auxiliary tank to 70°C-75°C (158°F-167°F). 4. When the main and auxiliary tanks are both at 70°C-75°C (158°F-167°F), add the contents of the auxiliary tank to the main tank with regular mixing until uniform. Continue slow mixing for 5 minutes then begin cooling batch to < 40°C (< 104°F) with slow mixing. 	
Physical Properties	Appearance at 25°C	Hazy to translucent, viscous liquid
	pH, as is	11.5 - 12.0
	Viscosity at 25°C, cps	45,000 - 75,000
Storage/Stability	4 weeks at 25°C	Stable
	4 weeks at 40°C	Stable
Instructions for Use	<p>To create finished chassis from this base, dilute to the following actives. Mid-tier formulas are provided. For additional information on economy and prestige products, reach out to Stepan Technical Service, techserv@stepan.com.</p> <p>Hand Soap: 7-10% surfactant actives, Body Wash: 9-12% surfactant actives, Shampoo: 10-15% surfactant actives.</p> <p>(1) Dilute base to desired finished concentration. (2) Add additional surfactants, preservative, fragrance, and other additives as desired. (4) Adjust pH as needed.</p>	
External Comment	For regional flexibility, BIO-TERGE® AS-40 HASB and AMPHOSOL® CG-UN are suitable.	

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For
Additional
Assistance

For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or +33 476 505 100 (Europe).

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

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Revision Date: 03/06/2026 Publication Date: 05/23/2025 © 2026, Stepan Company. All rights reserved.