



Formulation

Name	ECONOMY SULFATE-FREE SHAMPOO OR BODY WASH		
No.	1112		
Description	This shampoo utilizes the combination of ALPHA-STEP PC-48 and AMPHOSOL CDB-HP to create a mild, high-foaming shampoo. It can also act as a base chassis for a body wash.		
Formulation	INGREDIENTS:	% by Weight	Functionality
	ALPHA-STEP® PC-48	13.50	Primary Surfactant
	AMPHOSOL® CDB-HP	10.00	Secondary Surfactant
	Sodium Chloride	1.50	Viscosity Adjuster
	Citric Acid (25% Solution)	q.s.	pH Adjuster
	Fragrance, Preservative and Color	q.s.	Additives
	Water	q.s. to 100.00	Carrier
	Total	100.00	
Procedure	1. Add Water to a container and turn on the agitator. Add surfactants and mix till homogeneous. 2. Add Sodium Chloride to adjust viscosity. Add Fragrance, Preservative and Dye under mixing. Adjust pH with Citric Acid (25% Solution) to between 5.0–5.5.		
Physical Properties	Appearance at 25°C	Clear viscous liquid	
	pH, as is	5.0 - 5.5	
	Viscosity at 25°C, cps	3,500 - 6,200	
Storage/ Stability	4 weeks at 25°C	Stable	
	4 weeks at 50°C	Stable	
	Freeze/thaw 3 cycles	Requires gentle mixing after freezing.	
Instructions for Use	Apply the product on wet hair or body. Lather, then rinse thoroughly.		
External Comment	Marketing Notes: Sulfate-Free means containing no alcohol sulfate or alcohol ether sulfate per INCI nomenclature.		
Registered Trademarks of Stepan Company	ALPHA-STEP® AMPHOSOL®		
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