

Formulation

Name	SCRUBBING SHOWER GEL	
No.	1012	
Description	This deep-cleansing, scrubbing, body gel formulation exfoliates the skin and leaves it clean, radiant, and velvety to the touch.	
Formulation	INGREDIENTS: Deionized Water Carbopol ETD2020 (Lubrizol) Acrylates/C10-30 Acrylate Glycerin (Dow) STEPAN-MILD® PCL AMPHOSOL® HCG (or AMPHOSOL® HCG-HP) Merquat 550 (Calgon) Polyquaternium-7 Lipo APS 40/60 (Lipo Chemical) Crushed Apricot Seed Lipo WSF 35/60 (Lipo Chemical) Walnut Shell Powder Sodium Hydroxide, 50% solution Citric Acid, 50% solution Preservative, Dye, and Fragrance	% by Weight Functionality q.s. to 100.0 Carrier 1.0 Thickener 1.5 Humectant 55.0 Primary Surfactant 9.6 Secondary Surfactant 3.0 Conditioning Agent 0.2 Abrasive 0.2 Abrasive q.s. pH Modifier q.s. Viscosity Modifier q.s. pH Adjuster
	Total	100.0
Procedure	1. Charge vessel with Deionized Water. Start agitation. 2. Slowly sprinkle in Carbopol ETD2020. Mix until completely dispersed. 3. Add Glycerin, STEPAN-MILD® PCL, AMPHOSOL® HCG (or AMPHOSOL® HCG-HP), and Merquat 550. Mix well. 4. Add Lipo APS 40/60 and Lipo WSF 35/60. Mix until homogeneous. 5. Adjust pH to 5.0–6.0 with Sodium Hydroxide, 50% solution or Citric Acid, 50% solution. 6. Add Preservative, Fragrance, and Dye. *Note: When formulating with AMPHOSOL® HCG-HP, a greater amount of Citric Acid, 50% solution, may be needed to adjust the pH within the recommended range as noted, than when formulating with AMPHOSOL® HCG.	
Physical Properties	Appearance at 25°C	Translucent, thick liquid
	pH, as is	5.0–6.0
	Viscosity at 25°C, cps	40,000–50,000
Storage/Stability	4 weeks at 25°C	Stable
	4 weeks at 45°C	Stable
	4 weeks at 5°C	Stable
	Three freeze/thaw cycles	Passed
Instructions for Use	Apply to wet skin, lather, and then rinse.	
	Provides good foaming and cleansing property.	
External Comment	Marketing Notes: BCI = 86. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. For further information on Stepan's BCI, visit	

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