



Formulation

Name	DAILY PURIFYING GEL SHAMPOO/BODY WASH WITH STEPANBLEND® FF40	
No.	1253	
Description	This cleansing formulation is a solution for formulators that want to minimize surfactant components and minimize use of heating.	
Formulation	<u>INGREDIENTS:</u>	<u>% by Weight</u> <u>Functionality</u>
	Deionized Water	q.s. to 100.0 Carrier
	STEPANBLEND® FF40	28.0 Surfactant Blend
	dl- Menthol (Aldrich)	0.1 Perfume Agent
	Citric Acid	q.s. pH Adjuster
	Sodium Chloride	q.s. Viscosity Adjuster
	Blue 1	q.s. Dye
	Preservative	q.s. Preservative
	Total	100.0
Procedure	<ol style="list-style-type: none"> 1. To a suitable vessel, add Deionized Water. Turn on agitation at a slow to moderate speed. 2. Add STEPANBLEND® FF40 with mixing. 3. Add dl-Menthol as a liquid with mixing. Menthol is a solid at room temperature and will need to be liquefied prior to adding it to the batch. 4. Check the pH. Add Citric Acid with mixing to adjust the formulation to the target pH range. 6. Add Sodium Chloride with mixing. 7. Add Blue 1 dye with mixing. 8. Add Preservative. 	
Physical Properties	Appearance at 25°C	Clear, teal to light green liquid
	pH, as is	5.5 - 6.5
	Viscosity at 25°C, cps	10,000 - 16,000
	Odor	Minty
Storage/ Stability	4 weeks at 25°C	Stable
	4 weeks at 4°C	Stable
	4 weeks at 45°C	Stable
	Freeze-Thaw, 3 cycles	Passes
Instructions for Use	Apply to wet hair and/or skin and work into a lather. Avoid direct contact with eyes. Rinse well with water. If direct contact with the eyes occurs, rinse eyes thoroughly with water.	
External Comment	<p>Marketing Notes: STEPANBLEND® FF40 is a sulfate-free surfactant blend that does not contain Cocamide DEA or Diethanolamine (DEA), Ethylene Oxide (EO) or traditional preservatives. This allows the formulator to choose their preferred preservative when preparing the formulation. BCI = 20. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Other ingredients were not evaluated. For further information on Stepan's BCI, visit www.stepan.com.</p>	

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

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