



# Formulation

Name	<b>SULFATE-FREE FEMININE WASH</b>	
No.	1256	
Description	A sulfate-free cleanser for the perineal area. For external use only.	
Formulation	<b>INGREDIENTS:</b>	<b><u>% by Weight</u>   <u>Functionality</u></b>
	=== Phase 1 ===	
	Deionized Water	q.s. to 100 Carrier
	STEPANBLEND® FF40	18.50 Surfactant Blend
	Citric Acid (50% aqueous solution)	0.25 pH Modifier
	STEPAN-MILD® GCC	0.20 Cleansing/Skin Feel
	Sodium Chloride	2.00 Viscosity Modifier
	=== Phase 2 ===	
	Fragrance	q.s. Fragrance
	Preservative	q.s. Preservative
	Citric Acid (50% aqueous solution)	q.s. pH Modifier
	<b>Total</b>	<b>100.00</b>
Procedure	<ol style="list-style-type: none"> <li>1. Charge Deionized Water to a clean, tared vessel and start slow to moderate mixing.</li> <li>2. Add STEPANBLEND® FF40 and Citric Acid (50% solution).</li> <li>3. Add STEPAN-MILD® GCC. Mix well.</li> <li>4. Add Sodium Chloride.</li> <li>5. Add Preservatives and Fragrance if desired.</li> <li>6. Adjust pH to target 5.0-5.5 with Citric Acid (50% solution). Add Sodium Chloride with mixing to adjust viscosity.</li> </ol>	
Physical Properties	Appearance, as is	Clear to slightly haz liquid
	pH, as is	5.0-5.5
	Viscosity, cps (Brookfield LVT, spindle 3 speed 12)	6,000-9,000
Storage/Stability	2 months at 25 °C	Stable
	2 months at 4 °C	Stable
	2 months at 45 °C	Stable
	Freeze/thaw 3 cycles	Passes
Instructions for Use	For external use only. Wet area. Pour small amount of product onto hand or washcloth, then apply to area. Rinse thoroughly.	
External Comment	<p>Marketing Notes: Sulfate-free is defined as not containing Alcohol sulfate or Alcohol ether sulfate as per INCI nomenclature. This definition does not include the inorganic sulfates, e.g. Sodium sulfates, used as processing aids or formed as a residual, impurity or by-product.</p> <p>STEPANBLEND® FF40 does not contain any sulfated surfactants, Diethanolamine (DEA), 1,4-dioxane, or Ethylene Oxide (EO) or preservatives. This formulation does not contain any sulfated surfactants, Diethanolamine (DEA) or Ethylene Oxide (EO). The formulator may use a lower amount of Sodium Chloride if a lower viscosity is desired. BCI = 73. Total Biorenewable</p>	

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](http://www.stepan.com).

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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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