NATURALLY-DERIVED SULFATE-FREE MOISTURIZING SHAMPOO AND BODY WASH

No. 1119

Description
This shampoo and body wash is formulated with naturally-derived surfactants and provides good foam and conditioning properties. This product is gentle enough for permed or color-treated hair.

Formulation INGREDIENTS: 

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>% by Weight</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deionized Water</td>
<td>q.s. 100.00</td>
<td>Diluent</td>
</tr>
<tr>
<td>STEPAN-MILD® LSB</td>
<td>40.00</td>
<td>Primary Surfactant</td>
</tr>
<tr>
<td>AMPHOSOL® CS-50</td>
<td>6.00</td>
<td>Secondary Surfactant</td>
</tr>
<tr>
<td>STEPAN-MILD® GCC</td>
<td>0.50</td>
<td>Conditioning Agent</td>
</tr>
<tr>
<td>STEPAN-MILD® L3</td>
<td>0.50</td>
<td>Emollient</td>
</tr>
<tr>
<td>Panthenol (BASF)</td>
<td>0.50</td>
<td>Conditioning Agent</td>
</tr>
<tr>
<td>Citric Acid, 50% aq. Solution</td>
<td>q.s.</td>
<td>pH Adjuster</td>
</tr>
<tr>
<td>Sodium Hydroxide, 50% solution</td>
<td>q.s.</td>
<td>pH Adjuster</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>q.s.</td>
<td>Viscosity Adjuster</td>
</tr>
<tr>
<td>Fragrance, Dye and Preservative</td>
<td>q.s.</td>
<td>Additives</td>
</tr>
</tbody>
</table>

Total: 100.00

Procedure
1. In a suitable vessel equipped with heating and agitation capabilities, charge Deionized Water.
2. Start heating water to 40ºC–45ºC.
3. Add STEPAN-MILD® LSB, AMPHOSOL® CS-50, STEPAN-MILD® GCC, and STEPAN-MILD® L3 using moderate agitation. Mix for at least 30 minutes until everything is completely dissolved.
4. Add Panthenol with continued mixing.
5. Cool the batch to 25ºC.
6. Adjust pH with Citric Acid or Sodium Hydroxide, if necessary. Adjust viscosity with Sodium Chloride, if necessary.
7. Add Preservative, Dye, and Fragrance, as desired.

Physical Properties
- Appearance, as is: Clear viscous liquid
- pH at 25ºC, as is: 5.0–5.5
- Viscosity at 25ºC LVT #3 at 12 rpm (cps): 3,000–7,000

Storage/ Stability
- 4 weeks at 5ºC: Stable
- 4 weeks at 25ºC: Stable
- 4 weeks at 45ºC: Stable
- Freeze/Thaw 3 cycles: Pass

Instructions for Use
Apply to hair and body. Lather, then rinse thoroughly. Repeat if desired. Use daily.

External Comment
Marketing Notes: BCI = 66%. Total BCI (Biorenewable Carbon Index) was calculated only for the Stepan surfactants in this formulation. For more information on Stepan's BCI guide, visit
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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