FORMULATION

NATURALLY-DERIVED MOISTURIZING BODY WASH

Name
No.
Description
A sulfate-free* body wash made with naturally-derived surfactants that provides high foaming and nice after-feel on skin.

Formulation
INGREDIENTS:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>% by Weight</th>
<th>Functionality</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALPHA-STEP® PC-48</td>
<td>16.20</td>
<td>Primary Surfactant</td>
</tr>
<tr>
<td>AMPHOSOL® CDB Special</td>
<td>13.30</td>
<td>Secondary Surfactant, Viscosity Modifier</td>
</tr>
<tr>
<td>Mackernium 007 (Rhodia) Polyquaternium-7</td>
<td>2.80</td>
<td>Additive</td>
</tr>
<tr>
<td>STEPAN-MILD® L3</td>
<td>1.0</td>
<td>Emollient, Secondary Surfactant</td>
</tr>
<tr>
<td>Kathon CG (Rohm and Haas) Methylchloroisothiazolinone and Methylisothiazolinone</td>
<td>0.05</td>
<td>Preservative</td>
</tr>
<tr>
<td>Fragrance and Color</td>
<td>q.s.</td>
<td>Additive</td>
</tr>
<tr>
<td>Citric acid or Sodium Hydroxide (25%)</td>
<td>q.s.</td>
<td>pH Adjuster</td>
</tr>
<tr>
<td>Water</td>
<td>q.s. to 100.00</td>
<td>Carrier</td>
</tr>
</tbody>
</table>

Total

100.00

Procedure
1) Add Deionized water to suitable vessel and begin agitating. Slowly add Mackernium 007. Mix until the solution is clear.
2) Add the first two surfactants. Mix well. Add STEPAN-MILD® L3 and mix until homogeneous.
3) Add the Fragrance, Dye, and Kathon CG. Mix well. Adjust pH with Citric Acid to pH 5.2–5.8.

Physical Properties
pH, as is
Viscosity at 25°C
Appearance at 25°C
5.2–5.8
6,000–9,000 cps
Clear viscous liquid

Storage/ Stability
4 weeks at 25°C
4 weeks at 5°C
4 weeks at 50°C
Freeze/Thaw 3 cycles
Stable
Stable
Stable

Instructions for Use
Apply to wet skin and lather. Rinse thoroughly.

External Comment
Marketing Notes: Sulfate-free* means containing no alcohol sulfate or alcohol ether sulfate per INCI nomenclature.

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ALPHA-STEP®
AMPHOSOL®
STEPAN-MILD®

For Additional Information
For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or 011-334-75-505-100 (Europe). For ordering assistance, call our Account Service Department at 1-800-457-7673.
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