Formulation

Name | BODY WASH
No. | 872
Description | This product cleans and conditions skin.
Formulation | INGREDIENTS: % by Weight | Functionality
Deionized Water | q.s. to 100.0 | Solvent, Carrier
PEG-150 Distearate (HALLSTAR® 6000 DS) | 1.5 | Thicken
BIO-TERGE® AS-40 (or BIO-TERGE® AS-40 HA) | 25.0 | Primary Surfactant
AMPHOSOL® CS-50 | 6.0 | Secondary Surfactant
Glycerin (Uniqema) | 1.0 | Humectant
DL-Panthenol (Roche) Panthenol | 0.05 | Additive
Preservative, Dye, Fragrance | q.s. | Additives
Citric Acid | q.s. | pH Adjuster
Sodium Hydroxide | q.s. | pH Adjuster
Sodium Chloride | q.s. | Viscosity Adjuster
Total | 100.0

Procedure
1. Into a suitable vessel equipped with mixing and heating capabilities, combine the following ingredients: Deionized Water, PEG-150 Distearate, BIO-TERGE® AS-40 (or BIO-TERGE® AS-40 HA), AMPHOSOL® CS-50, Glycerin, and DL-Panthenol.
2. Heat to 60ºC-65ºC (140ºF-149ºF). Mix until solution is clear.
3. Cool the batch to 25ºC. Add Preservative, Dye, and Fragrance.
4. Adjust pH with Citric Acid or Sodium Hydroxide and viscosity with Sodium Chloride, if necessary.
*Note: When formulating with BIO-TERGE® AS-40 HA, a greater amount of Citric Acid may be needed to adjust the pH within the recommended range as noted, than when formulating with BIO-TERGE® AS-40.

Physical Properties
Appearance at 25ºC | Clear liquid
pH at 25ºC | 6.0-6.5
Viscosity at 25ºC, cps | 3,000-3,500

Storage/Stability
1 month at 25ºC | Stable
1 month at 42ºC | Stable
1 month at 50ºC | Stable

Instructions for Use
Apply to skin, lather and rinse.

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BIO-TERGE®
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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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