MILD, SULFATE-FREE BABY AND TODDLER WASH

No. 1249

Description This formulation with STEPANBLEND® FF40 and Alkyl Polyglucosides is a clear wash that can be used on a baby's or toddler's hair and entire body.

Formulation INGREDIENTS: % by Weight Functionality
Deionized Water q.s. to 100.0 Carrier
STEPANBLEND® FF40 25.5 Surfactant Blend
Plantaren 818 UP (BASF) Coco Glucoside 4.0 Secondary Surfactant
STEPAN-MILD® GCC 0.5 Conditioning Agent
Preservative q.s. Preservative
Fragrance q.s. Fragrance
Citric Acid, 50% solution 0.4 pH Adjuster
Sodium Chloride 0.4 Viscosity Adjuster

Total 100.0

Procedure
1. To a suitable container, add Deionized water and begin to heat and mix.
2. At 30ºC-35ºC, add STEPANBLEND® FF40 and continue to mix.
3. Add Plantaren 818 UP and continue to mix.
4. Add STEPAN-MILD® GCC and continue to mix.
5. Add preservative and fragrance as desired, with mixing.
6. Add Citric Acid, 50% solution and Sodium Chloride with mixing. Continue to mix for 10-15 minutes until incorporated, then begin to cool.
7. Adjust pH to 5.0-6.0 with additional Citric Acid, 50% Solution as needed.
8. Adjust viscosity as needed with Sodium Chloride.

Physical Properties
Appearance at 25ºC Clear liquid
pH, as is 5.0 - 6.0
Viscosity at 25ºC, cps 3,000 - 7,000

Storage/ Stability
2 months at 25ºC Stable
2 months at 4ºC Stable
2 months at 45ºC Stable
Freeze Thaw, 3 cycles Passes

Instructions for Use
Apply to shampoo to the baby's or toddler's hair and skin using the hands or a washcloth. Lather and rinse with water.

External Comment
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. Zein score of STEPANBLEND® FF40 is 25 and Plantaren 818 UP (BASF) Coco Glucoside is 16, both of which contribute to the mildness of the formulation. STEPANBLEND® FF40 does not contain any sulfated surfactants, Diethanolamine (DEA), 1,4-dioxane, or Ethylene Oxide (EO) or preservatives. Also, this formulation does not contain any sulfated surfactants, Diethanolamine (DEA) or Ethylene
Oxide (EO).

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STEPAN-MILD®
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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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