

Name NATURALLY-DERIVED, EO-FREE, MILD BABY WASH

No. 1164

Description This high-foaming baby wash incorporates naturally-derived ingredients that do not contain EO (Ethylene Oxide). This formulation can be used as a shampoo or as a body wash.

Formulation INGREDIENTS: % by Weight Functionality

ALPHA-STEP® PC-48 13.20 Surfactant LATHANOL® LAL POWDER 10.00 Surfactant

AMPHOSOL® HCG
STEPAN-MILD® GCC
Outline Cliric Acid
Deionized Water

AMPHOSOL® HCG
Outline GCC
Outline

Total 100.00

Procedure

- 1. Charge Deionized Water in a suitable vessel equipped with heating and agitation capabilities.
- 2. While agitating, heat water to 55°C–60°C (131°F–140°F). Add ALPHA-STEP® PC-48 and LATHANOL® LAL Powder. Mix well until solubilized.
- 3. Cool down to 40°C–45°C (104°F–113°F). Then add AMPHOSOL® HCG while continuing agitation.
- 4. Add STEPAN-MILD® GCC. Mix well.
- 5. Cool batch to 25°C. Adjust pH with Citric Acid.
- 6. Add Fragrance, Dye, and Preservative with mixing.
- 7. Adjust viscosity with Sodium Chloride, if necessary.

Physical Properties Appearance at 25°C Clear liquid pH, as is 4.8–5.0 pH, after adjustment 5.5–5.8 Viscosity at 25°C, cps 4,500–4,800

Storage/ 4 weeks at 25°C Stable
Stability 4 weeks at 4°C Stable
4 weeks at 50°C Stable

Freeze/Thaw 3 cycles

Instructions for Use

Apply the product on wet hair or body. Lather, then rinse thoroughly.

This is a high-foaming baby wash with good hair detangling properties and a light skin-conditioning effect.

External Comment

Marketing Notes: BCI = 85; Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. LATHANOL® LAL Flake can be used as a replacement for LATHANOL® LAL Powder. For further information on Stepan's BCI, visit

www.stepan.com. STEPAN-MILD® GCC is ECOCERT certified. For further information on ECOCERT, visit www.ecocert.com.

Registered Trademarks of Stepan Company

ALPHA-STEP® LATHANOL® AMPHOSOL® STEPAN-MILD®

For Additional 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.

Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer's own study and the works of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) to the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.



Stepan Company Northfield, Illinois 60093 Telephone (847) 446-7500

Revision Date: Publication Date: 12/16/2010 © 2010, Stepan Company. All rights reserved.