



Formulation

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| Name | NATURALLY-DERIVED, SULFATE-FREE CONDITIONING SHAMPOO | |
| No. | 1094 | |
| Description | This shampoo is formulated with naturally-derived surfactants and provides good foam and conditioning properties. It is gentle on colored and treated hair. | |
| Formulation | INGREDIENTS: Deionized Water Glycerin (Uniqema) STEPAN-MILD® PCL AMPHOSOL® HCG (or AMPHOSOL® HCG-HP) STEPAN-MILD® GCC HALLSTAR® EGDS (Hallstar) DL-Panthenol (Roche) Panthenol Citric Acid, 50% solution Sodium Hydroxide, 50% solution Sodium Chloride Preservative, Dye and Fragrance | <u>% by Weight</u> <u>Functionality</u> q.s. to 100.00 Carrier 0.50 Humectant 38.00 Primary Surfactant 10.00 Secondary Surfactant 0.30 Conditioning Agent 0.50 Pearlescent Agent 0.20 Additive q.s. pH Adjuster q.s. pH Adjuster q.s. Viscosity Adjuster q.s. Additives |
| | Total | 100.00 |
| Procedure | <ol style="list-style-type: none"> In a suitable vessel equipped with heating and agitation capabilities, charge Deionized Water. Start heating water to 60°C–65°C (140°F-149°F). Add Glycerin, STEPAN-MILD® PCL, AMPHOSOL® HCG (or AMPHOSOL® HCG-HP), STEPAN-MILD® GCC, and HALLSTAR® EGDS using moderate agitation. Continue heating to 60°C–65°C (140°F-149°F). Mix for at least 30 minutes until everything is completely dissolved. Begin cooling to 40°C (104°F). Adjust mixing speed to minimize aeration. At 40°C (104°F), add DL-Panthenol with continued mixing. Continue cooling the batch to 25°C (77°F). Adjust pH with Citric Acid, 50% solution or Sodium Hydroxide, 50% solution, if necessary. Adjust viscosity with Sodium Chloride, if necessary. Add Preservative, Dye and Fragrance as desired. <p>*Note: When formulating with AMPHOSOL® HCG-HP, a greater amount of Citric Acid (50% solution) may be needed to adjust the pH within the recommended range as noted, than when formulating with AMPHOSOL® HCG.</p> | |
| Physical Properties | Appearance, as is | Pearlescent viscous liquid |
| | pH, as is | 5.5–6.5 |
| | Viscosity at 25°C (LVT #3 at 12 rpm), cps | 3,500–6,000 |
| Storage/Stability | 4 weeks at 5°C | Stable |
| | 4 weeks at 25°C | Stable |
| | 4 weeks at 45°C | Stable |
| | Freeze/Thaw 3 cycles | Pass |
| Instructions for Use | <p>Massage into wet hair. Lather, then rinse thoroughly. Repeat if desired. Use daily.</p> <p>This shampoo is gentle enough for permed or colored hair.</p> | |

External
Comment

Marketing Notes: Naturally-derived is defined as surfactants sourced from plant, animal or marine feedstocks. Sulfate-Free means containing no alcohol sulfate or alcohol ether sulfate as per the INCI nomenclature. BCI = 85. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. For further information on Stepan's BCI, visit www.stepan.com.

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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.

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