



# Formulation

|                      |   |   |
|----------------------|---|---|
| Name                 | <b>HAIR MASK WITH STEPANQUAT® SOLEIL</b>  |   |
| No.                  | 1367  |   |
| Description          | This deep-treatment hair conditioning mask is designed to be used once a week to moisturize dry, thirsty hair with STEPANQUAT Soleil, a naturally-derived conditioning agent made from non-GMO sunflower oil.   |   |
| Formulation          | <b>INGREDIENTS:</b>   | <b><u>% by Weight</u>   <u>Functionality</u></b>                                      |
|                      | === Phase 1 ===<br>Deionized Water  | q.s. to 100.0 Carrier   |
|                      | === Phase 2 ===<br>Cetearyl Alcohol<br>STEPANQUAT® Soleil<br>STEPAN-MILD® L3<br>Butyrospermum Parkii (Shea) Butter  | 5.0 Viscosity Builder<br>2.0 Conditioning Agent<br>1.0 Emollient<br>0.9 Feel Enhancer |
|                      | === Phase 3 ===<br>Tocopheryl Acetate (Vitamin E)<br>Euxyl® K900 (Schülke & Mayr SA) Benzyl Alcohol & Ethylhexyl Glycerine<br>Silky Touch (Mane & Fils SA) Fragrance  | 0.2 Antioxidant<br>0.8 Preservative<br>0.2 Fragrance                                  |
|                      | === Phase 4 ===<br>Citric Acid, 50% Solution  | q.s. pH Modifier  |
|                      | <b>Total</b>  | <b>100.0</b>  |
| Procedure            | <ol style="list-style-type: none"> <li>1. In a suitable container, add Deionized Water and heat water to 65°C (149°F).</li> <li>2. In a separate container, melt Phase 2 ingredients together (Cetearyl Alcohol, STEPANQUAT Soleil, STEPAN-MILD L3 and Butyrospermum Parkii (Shea) Butter) with mixing at 65°C (149°F).</li> <li>3. Add Phase 2 to Phase 1 with mixing. Use a dispersion mixer to emulsify.</li> <li>4. Begin to cool the emulsion slowly to 40°C (104°F).</li> <li>5. Add Phase 3 ingredients in the order noted above (Tocopheryl Acetate, Euxyl K900 and Silky Touch).</li> <li>6. Once at room temperature, adjust pH, if necessary, with Citric Acid, 50% Solution.</li> </ol> |   |
| Physical Properties  | Appearance, as is<br>pH, as is<br>Viscosity (Brookfield, LV2 V3), cps   | Opaque thick cream<br>2.8<br>37,800   |
| Storage/Stability    | 4 weeks at 20°C<br>4 weeks at 45°C<br>4 weeks at 5°C  | Stable<br>Stable<br>Stable  |
| Instructions for Use | Apply to hair and let stand for 5 minutes. Rinse hair thoroughly with water.  |   |
| External             |   |   |

Comment

Marketing Notes: Marketing Notes: BCI = 92. Total Biorenewable Carbon Index (BCI) was calculated only for the Stepan surfactants used in this formulation. Other non-Stepan ingredients were not evaluated. For further information on Stepan's BCI, visit [www.stepan.com](http://www.stepan.com). STEPAN-MILD® L3-G/MB can be used as a substitute for STEPAN-MILD® L3. Sodium Benzoate and Potassium Sorbate have a strong negative impact on the viscosity and are consequently not recommended for hair masks.

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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.

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