



# Formulation

|   |  |   |
|---|--|---|
| Name                                    | <b>SHAMPOO FOR DRY HAIR</b>  |   |
| No.                                     | 890  |   |
| Description                             | This mild formulation provides moisturizing properties to the hair.  |   |
| Formulation                             | <b>INGREDIENTS:</b>  | <b><u>% by Weight</u>    <u>Functionality</u></b> |
|   | Deionized Water  | q.s. to 100.0 Solvent, Carrier                    |
|   | PEG-150 Distearate (HALLSTAR® PEG 6000 DS)   | 0.5 Thickener                                     |
|   | STEOL® CS-230  | 20.0 Primary Surfactant                           |
|   | AMPHOSOL® 2C   | 20.0 Surfactant                                   |
|   | AMPHOSOL® CS-50  | 6.0 Surfactant                                    |
|   | DL-Panthenol (Roche) Panthenol   | 0.05 Additive                                     |
|   | Citric Acid  | q.s. pH Adjuster                                  |
|   | Sodium Hydroxide   | q.s. pH Adjuster                                  |
|   | Sodium Chloride  | q.s. Viscosity Adjuster                           |
|   | Fragrance, Dye & Preservative  | q.s. Additives                                    |
|   | <b>Total</b>   | <b>100.0</b>                                      |
| Procedure                               | <ol style="list-style-type: none"> <li>1. Combine Deionized Water, PEG-150 Distearate, STEOL® CS-230, AMPHOSOL® 2C, and AMPHOSOL® CS-50 in a suitable vessel.</li> <li>2. Begin mixing and heating to 70-75°C.</li> <li>3. When PEG-150 Distearate is melted, mix for 15-20 minutes maintaining a temperature of 70-75°C and begin cooling to 25°C.</li> <li>4. Add DL Panthenol, Fragrance, Dye, and Preservative. Mix well.</li> <li>5. Adjust pH with Citric Acid or Sodium Hydroxide and viscosity with Sodium Chloride.</li> </ol>  |   |
| Physical Properties                     | pH   | 6.0 - 6.5   |
|   | Viscosity at 25°C, cps   | 7000 - 8000                                       |
| Storage/Stability                       | 3 months at 25°C   | Stable  |
|   | 1 month at 42°C  | Stable  |
|   | 1 week at 50°C   | Stable  |
| Instructions for Use                    | Wet hair, apply, and rinse.  |   |
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| For Additional Assistance               | <p>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).</p> <p>For ordering assistance, call our Account Service Department at 1-800-457-7673.</p> <p>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</p> |   |

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