



Formulation

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| Name | OPAQUE SHAMPOO | |
| No. | 1080 | |
| Description | This shampoo cleans and conditions the hair. | |
| Formulation | INGREDIENTS: | <u>% by Weight</u> <u>Functionality</u> |
| | Deionized Water | q.s. to 100.0 Solvent |
| | STEOL® CS-230 | 42.6 Primary Surfactant |
| | STEPAN-MILD® L3 | 1.0 Secondary Surfactant |
| | PEG-120 Methyl Glucose Dioleate (Glucamate DOE-120) | 0.8 Thickener |
| | Noveon | 0.4 Conditioning Agent |
| | Silicone Quaternium-16 and Undeceth-11 and Butyloctanol and Undeceth-5 (Dow Corning 5-7113) Dow Corning | 0.5 Opacifier |
| | Ethylene Glycol Monostearate (HallStar EGMS) Hallstar | q.s. pH Adjuster |
| | Preservative, Dye, Color | 0.25 Buffer |
| | Sodium Citrate, 10% sol. | q.s. pH Adjuster |
| | Citric Acid, 50% sol. | q.s. |
| | Sodium Chloride | |
| | Total | 100.0 |
| Procedure | Into a suitable vessel equipped with mixing, heating and cooling capacity add Deionized Water, STEOL® CS-230, STEPAN-MILD® L3, Glucamate DOE-120, Dow Corning 5-7113 and EGMS. Start mixing and heating to 160–165°F until clear. Keep mixing at 160–165°F for 20–25 min. Start cooling to 80°F. Add Preservatives, dye and color. Add Sodium Citrate and adjust pH to 6.0 - 6.5 with Citric Acid and adjust viscosity with Sodium Chloride. | |
| Physical Properties | Appearance at 25°C | opaque |
| | pH at 25°C | 6.0–6.5 |
| | Viscosity at 25°C | 8,000–10,000 |
| Storage/ Stability | 1 month at room temperature | stable |
| | 1 month at 42°C | stable |
| Instructions for Use | Apply the product to the hair and work your hair into a lather. Rinse and repeat if necessary. | |
| Registered Trademarks of Stepan Company | STEOL® 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 | |

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