

OPACIFIED BABY SHAMPOO

| RAW MATERIALS | % By Weight |
|-----------------------------------|-------------|
| MIRANOL 2MCAS MODIFIED | 30.0 |
| Cedemide AX | 2.0 |
| Cerasynt IP | 0.5 |
| Methocel 4EM Premium, 3% Solution | 35.0 |
| Water | 32.5 |

Procedure:

- (A) To prepare the Methocel solution add three parts of Methocel E4M to 30 parts of water at 80C. Mix until uniformly suspended. Add 67 parts of cold water with mixing and stir until uniform.
- (B) Combine the MIRANOL 2MCAS MODIFIED, Cedemide AX and Cerasynt IP and heat to 80C. Add the 3% Methocel solution slowly with good mixing, then the remaining water. Mix until uniform. Adjust pH to 7.0 with hydrochloric acid.
- Solids: 17.0%, viscosity: 4,000 cps.

SOURCE: Miranol Inc.: MIRANOL Products for Cosmetics and Toiletries: Formulation

PEARLESCENT BABY SHAMPOO

| INGREDIENTS | %W/W |
|-------------------------------------------|----------------|
| Water | q.s. to 100.00 |
| TEXAPON ASV (Sodium Laureth Sulfate | 25.00 |
| (and) Magnesium Laureth Sulfate | |
| (and) Sodium Laureth-8 Sulfate | |
| (and) Magnesium Laureth-8 Sulfate | |
| (and) Sodium Oleth Sulfate | |
| (and) Magnesium Oleth Sulfate | |
| VELVETEX AB-45 (Coco Betaine) | 6.50 |
| EUPERLAN PK-850 (Mixture of fatty alcohol | 3.00 |
| ether sulfates with pearlizing agent) | |
| Sodium Chloride | 3.00 |
| BRONIDOX L (Propylene Glycol (and) | 0.20 |
| 5-Bromo-5-Nitro-1,3 dioxane) | |
| Fragrance | q.s. |
| | 100.00 |

Procedure:

Charge kettle with water. Add ingredients individually in the order listed, under agitation. Adjust the pH to 7.0 +/- 0.5 with 50% citric acid. Continue mixing until homogeneous. Fill off.

Comments:

This relatively low solid formula provides good performance without sacrificing mildness.

SOURCE: Henkel Corp.: Personal Care Products Formulary: H-4861