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## Sunflower Conditioning Shampoo

*Products highlighted: Florasolvs® PEG-10 Sunflower*

This clear, conditioning shampoo adds sheen to the hair, improves “combability,” and the fragrance lasts for hours, due to the fragrance fixative properties of PEG-10 Sunflower.

| Phase | Trade Name                         | INCI Name                          | Supplier         | %wt./wt.      |
|-------|------------------------------------|------------------------------------|------------------|---------------|
| A.    | Deionized Water                    | Water                              |                  | Q.S.          |
|       | UCARE Polymer LR 400               | Polyquaternium-10                  | Amerchol         | 0.40          |
|       | Versene 220 Crystals               | Tetrasodium EDTA                   | Dow              | 0.08          |
| B.    | Sulfochem SLS                      | Sodium Lauryl Sulfate              | Chemron          | 10.00         |
|       | Standapol ES-2                     | Sodium Laureth Sulfate             | Chemron          | 24.00         |
|       | Lexaine C                          | Cocamidopropyl Betaine             | Inolex           | 4.00          |
|       | Mackamide L-10                     | Lauramide DEA                      | McIntyre         | 4.50          |
| C.    | <b>Florasolvs PEG-10 Sunflower</b> | <b>PEG 10 Sunflower Glycerides</b> | <b>Floratech</b> | <b>4.00</b>   |
|       | Merquat 550                        | Polyquaternium-7                   | Calgon           | 0.50          |
|       | Preservative                       | -----                              |                  | Q.S.          |
|       | Citric Acid (20% solution, pH=5.5) | Citric Acid (and) Water            | DSM              | 0.36          |
|       | Sodium Chloride (20% solution)     | Sodium Chloride (and) Water        |                  | 1.50          |
| D.    | Fragrance                          | Fragrance                          |                  | Q.S.          |
|       |                                    |                                    | <b>TOTAL:</b>    | <b>100.00</b> |

### Mixing Procedure:

1. Heat water to 80°C. Add Polyquaternium-10 slowly with rapid propeller agitation. Stir for 20 minutes. Add tetrasodium EDTA. Stir for 5 minutes.
2. Add Phase B in order listed to Phase A. Keep the temperature at 75-80° C. Mix until uniform.
3. Add Phase C in order listed to Phase AB and mix until uniform. Cool to 40-45°C.
4. Add Phase D and mix until uniform. Cool to room temperature.

Note: The information herein is based on our research and the research of others and is believed to be accurate. No guarantee of their accuracy is made and the products discussed are sold without warranty, expressed or implied, and upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes. Likewise, statements concerning the possible use of these products are not intended as recommendations to use these products in infringement of any patent.