

**Formulation Information**  
Shampoo



## Clear Conditioning Shampoo

### Clear Shampoo: Clear, Combing - Dry, Combing - Wet

Formulation 00517

#### ATTRIBUTES

- Clear
- Combing - Dry
- Combing - Wet

#### DOW CORNING® PRODUCTS

- Dow Corning® 5-7113 SILICONE QUAT MICROEMULSION

Ingredient	Wt. %	Trade Name/Supplier
<b>Phase A</b>		
1. Ammonium Lauryl Sulphate	28.6	Standapol A / Cognis Corporation
2. Disodium EDTA	0.2	Disodium EDTA / Universal Preserv-A-Chem
3. PEG-120 Methylglucose Dioleate	0.5	Glucamate DOE 120 / Chemron Corporation
4. Deionised Water	22.8	
<b>Phase B</b>		
5. Ammonium Laureth Sulfate	25	Standapol EA-3 / Henkel KGaA
6. Cocamidopropyl Betaine	7	Lonzaine C / Lonza
7. Cocamide DEA	3	Comperlan KD / Henkel KGaA
<b>Phase C</b>		
8. PEG-15 Stearalkonium Chloride	0.3	Ethoquad 18/25 / Akzo Nobel Chemicals, Inc.
9. Hydroxypropyl Guar Hydroxypropyltrimonium Chloride	0.3	Jaguar C-162 / Rhodia, Inc.
10. Deionised Water	9.7	
<b>Phase D</b>		
11. DMDM Hydantoin	0.3	Glydant / Lonza
12. Silicone Quaternium-16 (and) Undeceth-11 (and) Butyloctanol (and) Undeceth-5	2	Dow Corning® 5-7113 SILICONE QUAT MICROEMULSION
13. Citric Acid	q.s.	
14. Fragrance	q.s.	

#### Procedure

1. Mix ingredients of Phase A together.
2. Heat Phase A ingredients to 70-75°C.
3. Mix until uniform.
4. Mix phase B ingredients together.
5. Add phase B to phase A with mixing.
6. Disperse Ingredient 9 into ingredient 10.
7. Add with mixing phase C to blend AB.
8. Cool to 40°C.
9. Add ingredients 11 and 12
10. Adjust pH to 6.5 with Citric Acid.

11. Perfume (fragrance) can be added at this point.

**Variations**

Alternative Dow Corning® Products have not been tested as of this printing.

**Stability**

Stable for at least 2 months at room temperature and 50°C. Passes 5 freeze/thaw cycles.

**External Reference Material**

No external references identified as of this printing.

**Dow Corning® Application Patents**

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