

Dry and/or Damaged Hair Shampoo

Shampoo: Intense Conditioning, Moisturizing and Nourishing Perception

Formulation 01144

ATTRIBUTES

Dry Feel
Enhanced Dry Combing
Enhanced Wet Combing
Wet Slip Feel
Intense Conditioning
Moisturizing and Nourishing Perception

DOW CORNING® PRODUCTS

DOW CORNING® CE 8401
EMULSION

Ingredient	Wt. %	Trade Name/Supplier
Phase A		
1. Deionized Water	52.95	
2. Tetrasodium EDTA	0.2	Versene 220 / The Dow Chemical Company
Phase B		
3. Polyquaternium-10	0.3	
Phase C		
4. PEG-150 Pentaerythrityl Tetrastearate	1.5	Crothix / Croda, Inc.
5. Sodium Lauryl Ether Sulfate	30	Texapon HBN / Cognis Corporation, Care Chemicals
6. Cocamide DEA	3	Cocamide DEA / Universal Preserv-A-Chem, Inc.
7. Cocamidopropyl Betaine	7	Velvatex BK-35 / Cognis Corporation, Care Chemicals
Phase D		
8. DMDM Hydantoin	0.4	Glydant / Lonza
9. Bis-Isobutyl PEG/PPG-20/35/ Amodimethicone Copolymer (and) Cetyl Ethylhexanoate (and) Polysorbate 80 (and) Butylene Glycol	4.65	DOW CORNING® CE 8401 EMULSION
10. Deionized Water	q.s.	
11. Citric Acid 10% solution	q.s.	Citric Acid / Roche

Procedure

1. Tare beaker, add deionised water, and cover.
2. Add ingredient 2 and begin mixing with a marine propeller type mixer. Use moderate speed.
3. Begin heating water to 70°C.
4. When temperature rises above 40°C, slowly add ingredient 3 and continue mixing and heating.
5. When solution is at least 70°C, add ingredient 4 and mix until fully melted.
6. Turn off heat, add ingredients 5, 6, 7, and continue mixing.

7. Cool to approximately 40°C with mixing.
8. Add ingredient 8 with mixing.
9. Add ingredient 9, compensate for water loss, and mix for 5-10 minutes.
10. Adjust pH to 6-7 with citric acid.

Variations

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

Stability

Stable for at least 2 months at room temperature and 40°C . Passes 5 freeze/thaw cycles.

External Reference Material

No external references identified as of this printing.

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Last Updated: 5/5/2009 4:59:44 PM