



Reference Formula

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Clear Color Protection Hair Shampoo

EP-HC-SC-0014D_V1

FORMULA

Phase	Ingredients (Trade Name)	Ingredients (INCI Name)	% By Weight
A	D.I Water	D.I Water	48.37%
	EDTA-2Na	Edetate Disodium	0.05%
	<i>D-Panthenol (Vitamin B5) (DSM) Panthenol</i>		0.10%
	SLES (70%)	Sodium Laureth Sulfate	16.00%
B	CAPB (30%)	Cocamidopropyl Betaine	7.00%
	<i>Eucarol AGE EC (Lamberti)</i>	<i>Sodium Cocopoylglucose Citrate</i>	1.00%
	Cocamide DEA	Coconut Diethanolamide	4.00%
C	D.I Water	D.I Water	20.00%
	SC-230M	Polyquaternium-10	0.40%
D	<i>5-7113 Silicone Quat</i>	<i>Silicone Quaternium-16 (and)</i>	1.50%
	<i>Microemulsion (Dow Corning)</i>	<i>Undeceth-11 (and) Butyloctanol (and) Undeceth-5</i>	
	<i>MEM-8168 Emulsion (Xiameter)</i>	<i>Amodimethicone (and) C12-14 sec-Pareth-7 (and) C12-14 sec-Pareth-5</i>	0.50%
	<i>Parsol SLX (DSM)</i>	<i>Polysilicone-15</i>	0.03%
	Glydant Plus Liquid	DMDM Hydantoin (and) Iodopropynyl Butylcarbamate	0.15%
E	Citric Acid (30% soln')	Citric Acid	0.40%
F	NaCl	Sodium Chloride	0.50%

PROCEDURE

1. Mix the ingredients in Phase A and heat to 75°C till all ingredients melt.
2. Add Phase B-C to Phase A under agitation.
3. Then cool down to 40°C and add Phase D under agitation.
4. Adjust the pH around 5.5 with citric acid.
5. Adjust the viscosity with Phase F.

SPECIFICATION

APPEARANCE	: Clear Viscous Liquid		
VISCOSITY	: approx. 4,310 ± 1,000 CP	(RVDV-E , Spindle LV2, 30 rpm, 3 min, 25°C)	
pH	: approx. 5.30 ± 0.5	(25°C)	

Recommendations contained, herein this Reference Formula, are advisory only.

4F-3, No. 100, Sec. 1, Jia Feng 11th Rd., Chupei, Hsin-Chu Hsien 30273, Taiwan, R. O. C.

TEL No. : 886-3-657-9279 FAX No. : 886-3-657-9278

Website : www.essence-plus.com E-MAIL : service@essence-plus.com

