

Hair Shampoo <Transparent> AGHS-9

a SLES free hair shampoo formulation containing **AMILITE GCK-12H** as a cleansing surfactant.

"Volume-up" and "Manageability" can be achieved.

	Trade name	INCI Name	wt %	Function
A	AMILITE GCK-12H	Potassium Cocoyl Glycinate, Potassium Cocoate, Water (30%)	8.5	Cleansing surfactant
B	Merquat 280NP *1	Polyquaternium-22, Water (43%)	1.5	Hair conditioning agent
C	Plantacare 1200UP *2	Lauryl Glucoside, Water (50%)	12.5	Cleansing surfactant
	Plantacare 2000UP *3	Decyl Glucoside, Water (50%)	1.5	Co-surfactant
	SOFTAZLINE CPB *4	Cocamidopropyl Betaine, Water (30%)	17.0	Co-surfactant
D	EDTA-2Na	EDTA-2Na	0.1	Stabilizer
E	CITRIC ACID *5	Citric Acid (10%aq.)	4.5	pH adjuster
	WATER	Water	To 100	
F	Preservative	Preservative	q.s.	Preservative
	Fragrance	Fragrance	q.s.	Fragrance
Total			100.0	

*1 Lubrizol, *2 BASF, *3 BASF, *4 Kawaken Fine Chemical

*5 the level of citric acid is presented as a rough guide

<PROCEDURE>

1. Mix part C and D at 60 °C with stirring until uniform.
2. Add part A to part C at 60 °C.
3. Add part B to part C at 60 °C.
4. Cool down to room temperature with stirring and add part E to adjust pH6.5.
5. Add part F at room temperature, resulting in the final formulation.

<PHYSICAL PROPERTIES and STABILITY>

Appearance: Liquid

pH: 6.5

Viscosity: 10~20Pa·s (B type, rotor No.2, 30rpm, 30sec., 25°C)

Stability: 0°C, 25°C, 40°C, 50°C, Cycle, 1 Months

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