NIKKOL GROUP

Formula Name：Non-Silicone Shampoo

Lot.No.27-TOS-2
(NIKKOL CMT-30: 20.0%)

INCI NAME	TRADE NAME	ROLE/FEATURE	SUPPLIER	wt%
A				
Butylene Glycol		Moisturizer		4.0000
Sorbitol, Water	(70% aq.)	Moisturizer		2.0000
Polyquaternium-10	CATINAL HC-200	Conditioning agent	TOHO Chemical Industry	0.5000
Citric Acid		pH adjuster		0.6500
Disodium EDTA		Chelating agent		0.1000
Phenoxyethanol		Antimicrobial agent		0.5000
B				
Water				29.2500
C				
Sodium Methyl Cocoyl Taurate, Water	NIKKOL CMT-30	Cleansing agent	NIKKO CHEMICALS	20.0000
Sodium Lauroyl Methylaminopropionate,	NIKKOL ALANINATE LN-30	Cleansing agent	NIKKO CHEMICALS	15.0000
Cocamidopropyl Betaine, Water	NIKKOL AM-3130N	Cleansing agent	NIKKO CHEMICALS	15.0000
Cocamide DEA	AMISOL CDE-G	Cleansing agent	Kawaken Fine Chemicals	2.0000
Glyceryl Undecylenate	NIKKOL MGU	Viscosity modifier	NIKKO CHEMICALS	1.0000
Decyl Glucoside, Water	Plantacare 2000 UP	Cleansing agent	BASF	10.0000
			Total	100.0000
Procedure				
1. Mix A until uniform.				
2. Add B into A, then heat to 80°C while stirring and stir until it swells completely.				
3. Add each ingredient of C into A+B, then heat to 80°C and mix until uniform.				
4. Cool down to 35°C while stirring.				

Physical Properties	Stability
Initial viscosity (B type Viscometer, No.3 6rpm, 30sec.): 1450 mPa・s	・RT, 45°C, 5°C: Confirmed for 3 months
pH (bulk): 5.5	・50°C, -5°C, Cycle (-5⇔45°C): Confirmed for 1 month

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