



Safflower Dream Nourishing Shampoo

This eco-friendly shampoo is especially designed to respond to the “Natural” or “Eco” consumer. The surfactant system is based on **Akypo® Foam RL 40** which is a mild anionic surfactant. **Betadet® S-20** is the best choice to replace SLES in sulfate-free formulations because of its good foaming properties. **Levenol® H&B** is a very mild and vegetable-based co-surfactant. **Amidet® N** has good solubilizing properties for fragrances and oils, and helps thicken the system. **Emanon® EV-E** is a non-ionic surfactant and a foam booster in the presence of oil and improves its deposition. **Vida-Caps 1040** with natural safflower oil, combined with **Kao Sofcare® GP-1** bring excellent conditioning and nutritive properties. This can be used as silicone alternative as it offers hair shine, volume and frizz control. Sulfate-free systems can be difficult to thicken, however, **ACULYN™ Excel** has excellent thickening and suspension properties at low pH. **Kem Nat** is a natural preservative, approved for Ecocert formulations.

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PERSONAL CARE

	Trade name	INCI name	Supplier	%
A	1	Water (Aqua)	Univar*	Q.5
	2	ACULYN™ Excel	Dow Personal Care / Univar*	8.0
	3	NaOH (33% solution)	Univar*	Q.5
	4	Akypo® Foam RL 40	Kao Chemicals Europe / Univar*	36.6
	5	Betadet® S-20	Kao Chemicals Europe / Univar*	18.0
B	6	Emanon® EV-E	Kao Chemicals Europe / Univar*	1.0
	7	Levenol® H&B	Kao Chemicals Europe / Univar*	0.5
	8	Amidet® N	Kao Chemicals Europe / Univar*	0.5
	9	Kao Sofcare® GP-1	Kao Chemicals Europe / Univar*	0.5
C	10	Citric Acid (30% solution)	Jungbunzlauer / Univar*	Q.5
	11	Kem Nat	Akema / Univar*	1.2
D	12	Golden Men SS153183	Kao Fragrances / Univar*	0.6
	13	Vida-Caps 1040	Lambson / Univar*	4.0

Procedure (Cold process)

1. Neutralize the ACULYN™ Excel in water using sodium hydroxide until pH 8.5
2. Add constituents of phase B in order
3. Adjust pH with citric acid until 6.5.
4. Add constituents of phase C in order and the Vida-Caps under low stirring without shear

Stability

Stable at least 2 months at room temperature, 4°C and 40°C (still ongoing).

Comments

- pH = 6,5
- Viscosity (spindle 5 ; 10 rpm ; 1 min) = 13 240 cPs
- Mild pale pink shampoo with encapsulated safflower oil

* Please contact your regional Univar sales representative to ensure that mentioned products are distributed in your country.

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