

C-170

BODY SHAMPOO

MOISTURIZING

GUIDELINE FORMULARY

DESCRIPTION

Restores balance to skin
Very mild formulation

COMPOSITION

	%
EMAL® 227E ⁽¹⁾	30.0
BETADET® SHR	3.6
AKYPO® RLM 45CA	2.3
AMIDET® N	2.0
LEVENOL® H&B	2.0
KAO Fragrance	q.s.
Dye(s)	q.s.
Preservative	q.s.
NaOH (10% solution)	q.s.
NaCl	q.s.
Deionized Water	Up to 100

TECHNICAL CHARACTERISTICS

Kao Method

APPEARANCE (20°C):	Clear viscous liquid	KCSA-258
pH (as it is):	Approx. 6.0	KCSA-014
VISCOSITY BROOKFIELD (20°C, cP):	Approx. 7,500 (0.9% NaCl)	KCSA-227
COLD CLOUD POINT (°C):	-10	KCSA-246
DRY MATTER (%):	Approx. 17	KCSA-092
STABILITY TEST:	Correct	(1 month 40°C/RT/5°C)

RECOMMENDED OPERATIVE METHOD

Disperse EMAL® 227E into water and add AKYPO® RLM 45CA. Stir until clear.

Add BETADET® SHR, LEVENOL® H&B and AMIDET® N in this order and stir until clear.

Adjust pH (it is recommended to use diluted sodium hydroxide to increase it and citric or lactic acid if a pH decrease is necessary).

Add the other additives: preservative (soluble), fragrance (15 minutes of agitation are usually needed to solubilize it), dyes (diluted in water) and other (extracts, etc.).

Adjust the final viscosity using Sodium Chloride until desired level.

COMMENTS

In case of using EMAL® 270D, it's recommended to heat the initial water at 45-50°C to facilitate its incorporation.

No relevant differences are observed if AKYPO® RLM 45CA is previously solved in the water (pH decreases till around 2.5) and neutralized with Sodium Hydroxide in the beginning. In this case we recommend to adjust pH around 5 to avoid the use of additional acids at the end of the

If a white pearled appearance is desired, a mild pearled base can be added as for example DANOX® PL-10 (3% approx.).

COMPONENTS

AKYPO® RLM 45CA (Laureth-6 Carboxylic acid, ≈ 95% a.m.): crypto-anionic character, it combines the properties of the anionic and non-ionic surfactants. Foaming co-surfactant, with solubilizing properties and very mild for the skin.

AMIDET® N (PEG-4 Rapeseedamide, ≈ 95% a.m.): non-ionic character. Nitroso-amines free thickener. It increases the foam volume and improves the quality of it. It reduces the irritation potential of the anionic surfactants on the skin. Multi-functional agent.

BETADET® SHR (Cocamidopropyl Hydroxysultaine, ≈ 44% a.m.): amphoteric character. Very mild co-surfactant. It decreases the irritation level of anionic surfactants, improving the quality of the foam and performing also as a thickener.

EMAL® 227E (Sodium Laureth Sulfate, ≈ 27% a.m.): anionic character. Primary surfactant, highly foaming. Good detergent properties.

LEVENOL® H&B (Glycereth-2 Cocoate, ≈ 100% a.m.): non-ionic character. Extra-mild surfactant, with emulsifying properties. Skin emollient and moisturizing agent. Foam booster and thickening agent. Ecological product. It doesn't need any risk or safety warnings on its label. In hair rinse application increases the conditioning effect of the cationic component, giving smoothness. % of use in Hair Rinse = between 0.1 - 2%.

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