

C-195

SHOWER CREAM

COLD PROCESS

GUIDELINE FORMULARY

DESCRIPTION

Fatty acid and fatty alcohol free
Creamy and consistent foam
Contains 10% sunflower oil

COMPOSITION

	%
EMAL® 270D ⁽¹⁾	14.3
BETADET® HR	10.0
AKYPO® FOAM RL 40	4.8
EMANON® EV-E	3.5
AMIDET® N	1.0
Helianthus Annus Seed Oil (Sunflower Oil)	10.0
Glycerine	3.0
Guar Hydroxypropyl Trimonium Chloride ⁽²⁾	0.5
Xantan Gum ⁽³⁾	0.2
KAO Fragrance	q.s.
Dye(s)	q.s.
Preservative ⁽⁴⁾	0.05
Lactic Acid	q.s.
Deionized Water	Up to 100

(1) 14.3% of EMAL® 270D (SLES at 70% a.m.) can be substituted by 37% of EMAL® 227E (SLES at 27% a.m.)

(2) Jaguar® C-17 from Solvay

(3) Satiaxane® CX91 from Degussa

(4) Isocil® PC from Lonza

TECHNICAL CHARACTERISTICS

Kao Method

APPEARANCE (20°C):	Pink viscous emulsion	KCSA-258
pH (as it is):	5.0 - 5.5	KCSA-014
VISCOSITY BROOKFIELD (20°C, cP):	Approx. 13,000	KCSA-227
STABILITY TEST:	Correct	(1 month 40°C/RT/5°C)

RECOMMENDED OPERATIVE METHOD

Add EMAL® 270D and Cationic Guar polymer to 2/3 of the water at room temperature, while stirring at low speed to avoid the foam formation.

Once the mixture is homogeneous, add BETADET® HR, AKYPO® FOAM RL 40 and Glycerine, stirring after each addition until it is homogeneous.

In a separate vessel mix EMANON® EV-E, Helianthus Annus Seed oil and AMIDET® N and incorporate slowly to the main vessel.

In a separate vessel, dissolve completely the Xanthan Gum in the 1/3 of the water and add it to the main vessel.

Stir during 30 minutes until complete homogenization. Then, add the rest of the ingredients.

COMMENTS

This formula incorporates 10% of oil, not being necessary to use cream after the shower. AKYPO® FOAM RL 40 provides very creamy and consistent foam.

Xanthan Gum needs to be dissolved in water before the incorporation (at least 15 minutes of stirring are necessary).

Using EMANON® EV-E, the foam remains high despite the presence of oil and the skin becomes smoother in comparison with other co-surfactants thanks to higher oil deposition.

COMPONENTS

AKYPO® FOAM RL 40 (Sodium Laureth-5 Carboxylate, ≈ 60% a.m.): crypto-anionic character, it combines the properties of the anionic and non-ionic surfactants. Mild foam-booster for Personal Care products. Produces a rapid foam and improves the foam behaviour of cleansing products when used as co-surfactant.

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® HR (Cocamidopropyl Betaine, ≈ 35% dry matter): amphoteric character. Secondary surfactant. It decreases the irritation level of the anionic surfactants on the skin, improving level and quality of the foam. Additional thickening affect.

EMAL® 270D (Sodium Laureth Sulfate, ≈ 70% a.m.): anionic character. Primary surfactant, highly foaming. Good detergent properties.

EMANON® EV-E (Glycereth-7 Caprylate/Caprata, ≈ 100% a.m.): non-ionic character. Vegetable based, liquid product. Excellent emulsifier and solubilizer for hydrophobic materials, with HLB ≈ 16. Suitable for both rinse-off and leave-on products in hair and body applications. Key ingredient to achieve high foamability and smooth feeling.

The information and recommendations in this publication are to the best of our knowledge reliable. However, nothing herein is to be construed as a warranty or representation. Users should make their own tests to determine the applicability of such information or the suitability of any products for their own particular purpose.

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