

C-310

SHOWER CREAM

ULTRA MILD

GUIDELINE FORMULARY

DESCRIPTION

Creamy and consistent foam
With 10% sunflower oil

COMPOSITION

	%
AKYPO® FOAM LM 25	20.8
BETADET® HR	10.0
EMANON® EV-E	3.0
AMIDET® N	1.5
KAOPAN® TW-IS399S	1.5
Sunflower Oil ⁽¹⁾	10.0
Glycerine	3.0
Acrylates/C10-30 Alkyl Acrylate Crosspolymer ⁽²⁾	1.0
KAO Fragrance	q.s.
Preservative ⁽³⁾	0.05
NaOH (10% solution)	q.s.
Deionized Water	Up to 100

(1) Sunflower Oil from OLVEA

(2) Carbopol® Ultrez 20 Polymer from Lubrizol

(3) Isocil® PC from Lonza

TECHNICAL CHARACTERISTICS

Kao Method

APPEARANCE (20°C):	White viscous liquid	KCSA-258
pH (as it is):	Approx. 6.2	KCSA-014
VISCOSITY BROOKFIELD (20°C, cP):	Approx. 76,000	KCSA-227
STABILITY TEST:	Correct	(1 month 40°C/RT/5°C)

RECOMMENDED OPERATIVE METHOD

Charge 2/3 of deionized water and dissolve Acrylates/C10-30 Alkyl Acrylate Crosspolymer until it is completely dissolved.

Add AKYPO® FOAM LM 25 while stirring at low speed to avoid the foam formation.

After completely homogenation add Glycerine and BETADET® HR, stirring after each addition until total homogeneity.

In a separate vessel mix EMANON® EV-E, Sunflower Oil and AMIDET® N and incorporate slowly to the main vessel.

Add KAOPAN® TW-IS399S previously dissolved with 1/3 of water.

Add preservative and parfum. Stir until complete homogeneous.

Adjust pH to 6.0 - 6.5 with NaOH 10%.

COMPONENTS

AKYPO® FOAM LM 25 (Potassium Laureth-4 Carboxylate, ≈ 60% a.m.): anionic character. Primary surfactant. Offers a soft and creamy foam, very stable and with special texture. Very mild and easy to thicken surfactant. Specially designed for sulfate-free formulations.

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.

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.

KAOPAN® TW-IS399S (PEG-160 Sorbitan Triisostearate, ≈ 75% a.m.): non-ionic character. Liquid thickener for any type of cleansing surfactant systems. Specially designed to increase viscosity of sulfate-free formulations. Processable at room temperature.

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