

C-284

SCALP TREATMENT SHAMPOO

GUIDELINE FORMULARY

DESCRIPTION

Cleanses with scalp care
UV protection
Mild formulation

COMPOSITION

	%
EMAL® 227E	37.0
BETADET® HR	10.0
AKYPO® RLM 45CA	3.3
AMIDET® N	2.0
KAO SOFCARE® GP-1	1.5
EXCEPARL® LM-LC	0.5
KAOPAN® TW-IS399S	0.3
Silicone Quaternium-16 ⁽¹⁾	2.3
Benzophenona-4 ⁽²⁾	0.5
Polyquaternium-10 ⁽³⁾	0.3
Copper Aspartate, Zinc Aspartate, Manganese Aspartate ⁽⁴⁾	0.2
KAO Fragrance	q.s.
Sodium Benzoate · Potassium Sorbate ⁽⁵⁾	0.5
Deionized water	Up to 100

(1) Dowsil™ 5-7113 from Dow Chemical

(2) Uvinul® MS40 from BASF

(3) Ucare® JR-400 from Dow Chemical

(4) Oligoidyne-2-complex from Vevy Europe

(5) Microcare® SB from Thor

TECHNICAL CHARACTERISTICS

Kao Method

APPEARANCE (20°C):	Clear Viscous gel	KCSA-258
pH (as it is):	5.0 - 5.5	KCSA-014
VISCOSITY BROOKFIELD (20°C, cP):	Approx. 10,000	KCSA-227
STABILITY TEST:	Correct	(1 month 40°C/RT/5°C)

RECOMMENDED OPERATIVE METHOD

Mix 85% of the water needed in the formula and Polyquaternium-10. Stir until complete transparency

Add AKYPO® RLM 45CA, BETADET® HR and EMAL® 227E. Stir after each addition until the mixture is homogeneous

Mix AMIDET® N, KAO SOFCARE® GP-1 and Perfume. Add this mixture to the previous one.

In another vessel add 15% of the water, Benzophenone-4 and EXCEPARL® LM-LC. When the mixture is clear add it to the previous one.

Add KAOPAN® TW-IS399S to increase viscosity.

Add preservative.

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

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

EXCEPARL® LM-LC (Lauryl Lactate, ≈ 100% a.m.): non-ionic character. Liquid ingredient derived from renewable sources. Thickener for cleansing compositions. It can be added at room temperature. Recommended dosage for rinse-off formulations, between 0.3 and 3%. For skin care application, it performs as skin emollient with high/medium spreadability and low oiliness. Recommended use percentage for skin care is 10% max. Excellent solubilizing properties for UV-filters.

KAO SOFCARE® GP-1 (PPG-3 Caprylyl Ether, ≈ 100% a.m.): non-ionic character. Clear transparent liquid at room temperature. Multi-functional conditioning agent that imparts similar characteristics to those of silicones, such as feel and functionality. It improves foam generation and hair shine.

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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