C-246

SHOWER GEL

ULTRA MILD

GUIDELINE FORMULARY

DESCRIPTION

Liquid cleanser
Very mild for skin
SLES free

COMPOSITION	%
ALFANOX® 46	**27.0**
BETADET® S-20	**10.5**
EXCEPARL® LM-LC	**1.0**
KAO Fragrance	q.s.
Dye(s)	q.s.
Preservative(1)	0.8
Citric Acid (10% solution)	q.s.
Deionized Water	Up to 100

(1) Saiguard® SP from Salicylates and Chemicals

TECHNICAL CHARACTERISTICS		Kao Method
APPEARANCE (20°C):	Clear liquid	KCSA-258
pH (as it is):	5.0 - 5.5	KCSA-014
VISCOSITY BROOKFIELD (20°C, cP):	Approx. 8,000	KCSA-227
STABILITY TEST:	Correct	(1 month 40°C/RT/5°C)

RECOMMENDED OPERATIVE METHOD

Add to the deionized water each one of the surfactants in the above-mentioned order and stir after each addition.
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 pH (it is recommended to use citric acid to decrease it, diluted sodium hydroxide if an increase is necessary).
Adjust the final viscosity using Sodium Chloride until desired.

COMPONENTS

ALFANOX® 46 (Sodium α-Olefine Sulfonate, ≈ 37% a.m.): anionic character. Primary surfactant, highly foaming. Good detergent properties.

BETADET® S-20 (Lauryl Hydroxysultaine, ≈ 38% 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. It improves the stability of the formula at extreme pH's and low temperature.

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.

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