

C-340

SMOOTH HAND WASH

GUIDELINE FORMULARY

DESCRIPTION

Extra mild
Creamy and soft foam
With moisturizing ingredients
NOI \geq 96%

COMPOSITION

	%
BETADET SHR	11.7
AKYPO FOAM LM 25	9.1
DANOX BF-22	2.6
LEVENOL H&B	1.7
EXCEPARL LM-LC	0.3
Glycerine	1.5
KAO Fragrance	q.s.
Preservative ⁽¹⁾	2.0
Lactic Acid	q.s.
Deionized Water	Up to 100

(1) Microcare SB from Thor

TECHNICAL CHARACTERISTICS

Kao Method

APPEARANCE (20°C):	Pearled viscous liquid	KCSA-258
pH (as it is):	5.0 - 5.5	KCSA-014
VISCOSITY BROOKFIELD (20°C, cP):	Approx. 9,000	KCSA-227
STABILITY TEST:	Correct	(1 month 40°C/RT/5°C)

RECOMMENDED OPERATIVE METHOD

Add to the water the following surfactants: AKYPO FOAM LM 25, BETADET SHR, LEVENOL H&B and EXCEPARL LM-LC in this order. Stirring after each addition until total homogeneity.

Add Glycerine and stir till complete homogenization.

Adjust pH with Lactic Acid 10%.

Add the other additives: preservative, fragrance (15 minutes of agitation are usually needed to solubilize it) and DANOX BF-22 (easy to incorporate) as opacifying agent. Check and readjust pH if necessary.

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.

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.

DANOX BF-22 (pearling concentrate, ≈ 45% dry matter): amphoteric and non-ionic character. It modifies the final appearance of the formula, giving a beautiful pearled appearance. Suggested dosage: 3 - 6%.

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.

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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