

# 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 <sup>(1)</sup>	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

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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

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**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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