

# C-222

# FACE CLEANSER

## SENSITIVE SKIN

### GUIDELINE FORMULARY

#### DESCRIPTION

It leaves the skin soft and smooth

It gently removes dirt, oil and makeup without causing redness, over-drying or irritation

#### COMPOSITION

	%
EMAL® 227E <sup>(1)</sup>	25.2
BETADET® S-20	5.3
AKYPO® FOAM RL 40	3.3
Glycerine	2.0
Propylene Glycol	1.5
Carbomer <sup>(2)</sup>	1.3
KAO Fragrance	q.s.
Preservative	q.s.
Deionized Water	Up to 100

(1) 25.2% of EMAL®227E (SLES at 27% a.m.) can be substituted by 9.7% of EMAL® 270D (SLES at 70% a.m.)

(2) Carbopol®Ultrez 21 from Lubrizol

#### TECHNICAL CHARACTERISTICS

#### Kao Method

APPEARANCE (20°C):	White gel	KCSA-258
pH (as it is):	Approx. 6.0	KCSA-014
VISCOSITY BROOKFIELD (20°C, cP):	Approx. 66,000	KCSA-227
STABILITY TEST:	Correct	(2 months 40°C/RT/5°C/cycles)

## RECOMMENDED OPERATIVE METHOD

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Mix water with EMAL® 227E and stir until clear.

Add AKYPO® FOAM RL 40, BETADET® S-20, Glycerine and Propylene Glycol. Stir well after each addition until a homogeneous dispersion is obtained.

Mix Carbomer with 40% of total water and once it is homogeneous add it to previous mixture.

Add the other additives: preservative (soluble), perfume (15 minutes of agitation are usually needed to solubilize it), dye(s) (diluted in water) and other (extracts, etc.).

Adjust pH (it is recommended to use NaOH to reduce it).

## COMPONENTS

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**AKYPO® FOAM RL 40** (Sodium Laureth-5 Carboxylate, ≈ 60% a.m.): crypto-anionic character, it combines the properties of the anionic and non-ionic surfactants. Mild foam-booster for Personal Care products. Produces a rapid foam and improves the foam behaviour of cleansing products when used as co-surfactant.

**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.

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

The information and recommendations in this publication are to the best of our knowledge reliable. However, nothing herein is to be construed as a warranty or representation. Users should make their own tests to determine the applicability of such information or the suitability of any products for their own particular purpose.

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