

C-304

LEAVE-ON HAIR SPRAY CONDITIONER

GUIDELINE FORMULARY

DESCRIPTION

Easy to apply
Leave-on
For frequent use

COMPOSITION

	%
DANOX® HC-30	5.0
EXCEPARL® LM-LC	0.5
Panthenol ⁽¹⁾	0.5
Propylene glycol	0.5
Cyclopentasiloxane ⁽²⁾	0.5
Quaternium-80 ⁽³⁾	0.5
Disodium EDTA	0.1
KAO Fragrance	q.s.
Preservative ⁽⁴⁾	0.4
Lactic acid (50% solution)	q.s.
Deionized Water	Up to 100

(1) Panthenol from DSM Nutritional Products Ltd.

(2) XIAMETER® PMX-1501 from Dow

(3) Abil® Quat 3272 from Evonik

(4) Microcare® MPE from Thor

TECHNICAL CHARACTERISTICS

Kao Method

APPEARANCE (20°C):	White viscous liquid	KCSA-258
pH (as it is):	4.0 - 4.5	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

Heat water to 70°C.

Add EDTA Na₂, Propylene Glycol and solid DANOX® HC-30. Stir after each addition until total homogeneity.

Add Quaternium-80 and Cyclopentasiloxane. Stir after each addition until total homogeneity.

Cool down to 30°C (0.5°C/min).

Add EXCEPARL® LM-LC, Panthenol, preservative and fragrance. Stir after each addition until total homogeneity.

Adjust pH to 4.0 - 4.5 with lactic acid 50%.

COMPONENTS

DANOX® HC-30 (surfactant blend, 100% a.m., ≈ 33% cationic a.m.): cationic and non-ionic character. It's based on a synergistic combination of cationic surfactants and fatty alcohol that allows single-step formulation providing an excellent performance in hair conditioning formulations. It provides smoothness and anti-static properties to the hair. Environmentally friendly cationic blend.

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.

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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