

# C-300

# SUN CARE ROLL-ON

## SILICONE FREE

## GUIDELINE FORMULARY

### DESCRIPTION

UV protection (expected SPF 30)

Retains the moisture level of the skin

Waterproof

### COMPOSITION

	%
EXCEPARL® LM-LC	10.0
KAO SOFCARE® GP-1	10.0
C12-15 Alkyl Benzoate <sup>(1)</sup>	24.3
Caprylic/Capryc Triglyceride	15.0
Dicaprylyl Carbonate <sup>(2)</sup>	11.0
Diethylamino Hydroxybenzoyl Hexyl Benzoate <sup>(3)</sup>	9.5
Ethylhexyl Methoxycinnamate <sup>(4)</sup>	6.5
Ethylhexyl Triazone <sup>(5)</sup>	5.0
Homosalate <sup>(6)</sup>	3.5
Octocrylene <sup>(7)</sup>	2.5
Ethylcellulose <sup>(8)</sup>	2.0
KAO Fragrance	q.s.

(1) Tegosoft® TN from Evonik

(2) Cetiol® C from BASF

(3) Uvinul® A Plus Granular from BASF

(4) Parsol® MCX from DSM

(5) Uvinul® T 150 from BASF

(6) Salisol® HMS from Salicylates & Chemical

(7) Uvinul® N 539T from BASF

(8) Ethocel® Standard 100 Premium from DOW

### TECHNICAL CHARACTERISTICS

### Kao Method

APPEARANCE (20°C):	Clear yellowish liquid	KCSA-258
VISCOSITY BROOKFIELD (20°C, cP):	Approx. 550	KCSA-227
STABILITY TEST:	Correct	(1 month 40°C/RT/5°C)

## RECOMMENDED OPERATIVE METHOD

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Dissolve Diethylamino Hydroxybenzoyl Hexyl Benzoate, Ethylhexyl Methoxycinnamate, Ethylhexyl Triazone, Homosalate and Octocrylene at ambient temperature, simple stirring (phase A).

Prepare phase B dissolving EXCEPARL® LM-LC, Caprylic/Capric Triglyceride, C12-15 Alkyl Benzoate, Dicaprylyl Carbonate and KAO SOFCARE® GP-1.

Add Ethylcellulose to phase B at high stirring rate for 15-20 minutes.

Heat phase B until 70-85°C until total homogeneity. Cool down temperature until 60°C.

Add phase B to phase A (previously heated at 60°C) and maintain the mix at 60°C until complete solubilisation.

## COMPONENTS

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**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.

**KAO SOFCARE® GP-1** (PPG-3 Caprylyl Ether, ≈ 100% a.m.): non-ionic character. Clear transparent liquid at room temperature. Multi-functional conditioning agent that imparts similar characteristics to those of silicones, such as feel and functionality. It improves foam generation and hair shine.

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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