

C-282

SUN CARE ROLL-ON

GUIDELINE FORMULARY

DESCRIPTION

UV protection (expected SPF 30)
Retains the moisture level of the skin
Waterproof

COMPOSITION

	%
EXCEPARL® LM-LC	10.0
C12-15 Alkyl Benzoate ⁽¹⁾	24.3
Caprylic/Capryc Triglyceride	15.0
Dicaprylyl Carbonate ⁽²⁾	11.0
Diethylamino Hydroxybenzoyl Hexyl Benzoate ⁽³⁾	9.5
Ethylhexyl Methoxycinnamate ⁽⁴⁾	6.5
Caprylyl Methicone ⁽⁵⁾	5.0
Ethylhexyl Triazone ⁽⁶⁾	5.0
Phenyl Trimethicone ⁽⁷⁾	5.0
Homosalate ⁽⁸⁾	3.5
Octocrylene ⁽⁹⁾	2.5
Ethylcellulose ⁽¹⁰⁾	2.0
KAO Fragrance	q.s.

- (1) Tegosoft® TN from Evonik
(2) Cetiol® CC from BASF
(3) Uvinul® A Plus Granular from BASF
(4) Parsol® MCX from DSM
(5) Dowsil™ FZ-3196 from Dow Chemical
(6) Uvinul® T 150 from BASF
(7) Dowsil™ 556 Fluid from Dow Chemical
(8) Salisol® HMS, from Salicylates & Chemical
(9) Uvinul® N 539T from BASF
(10) Ethocel® Standard 100 Premium from Dow Chemical

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

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 and Dicaprylyl Carbonate.

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.

Cool until 35°C, add Caprylyl Methicone and Phenyl Trimethicone, moderated stirring.

Cool at 25°C and add perfume.

COMPONENTS

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.

Statements concerning the use of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is assumed.

Ref. C16016/Sun Oil E

(Edited March 2017. Updated version July 2020)



Enriching lives,
in harmony with nature.

www.kaochemicals-eu.com