

Formulation Example

MDA-S-113-03 Gradual Tan Lotion with UV Protection SPF 10, UVA

Ingredients	Art. No.	INCI EU (INCI US, if different)	[%]
A1			
Eusolex® T-EASY	1.05338 (1)	TITANIUM DIOXIDE (NANO) (TITANIUM DIOXIDE), SILICA, CETYL PHOSPHATE	5.00
A2			
RonaCare® AP	1.30163 (1)	BIS-ETHYLHEXYL HYDROXYDIMETHOXY BENZYL MALONATE	1.00
Arlacel™ 165	(2)	GLYCERYL STEARATE, PEG-100 STEARATE	6.00
Tegin® M Pellets	(3)	GLYCERYL STEARATE	2.50
Parteck® LUB STA 50	(4)	STEARIC ACID, PALMITIC ACID	1.00
Shea Butter	(5)	BUTYROSPERMUM PARKII BUTTER (BUTYROSPERMUM PARKII (SHEA) BUTTER)	3.50
Dermofeel® Sensolv MB	(3)	ISOAMYL LAURATE	3.00
Tegosoft® XC	(3)	PHENOXYETHYL CAPRYLATE	5.00
Crodamol™ STS	(2)	PPG-3 BENZYL ETHER MYRISTATE	3.00
DUB Zenoat®	(6)	PROPANEDIOL DICAPRYLATE	3.00
Xiameter® PMX-200 Silicone Fluid (100cs)	(7)	DIMETHICONE	0.50
B1			
RonaCare® Ectoin	1.30200 (1)	ECTOIN	0.30
1,2-Propanediol	(4)	PROPYLENE GLYCOL	3.00
Water, demineralized		AQUA (WATER)	50.00
B2			
Keltrol® CG-RD	(8)	XANTHAN GUM	0.20
C			
Dihydroxyacetone	1.10150 (1)	DIHYDROXYACETONE	3.00
Water, demineralized		AQUA (WATER)	10.00
D			
Preservatives (q.s.)			0.00
Fragrance (q.s.)		PARFUM (FRAGRANCE)	0.00

Procedure:

Disperse phase B2 into phase B1. Heat phase A2 to 70-75 °C. Disperse phase A1 with a dispersing disc in phase A2. Heat phase A and phase B to 70-75 °C. Slowly add phase B to phase A while stirring. Homogenize. Cool down to 40 °C and add phases C and D while stirring.

Notes:

Appearance: white o/w lotion

pH value: 4.7 (24 °C)

Viscosity: 5,000 mPa.s (Brookfield DV-II+, Helipath, spindle B, 10 rpm) at 24 °C

Stability: 3 months at 40 °C, FTC (-5 °C to +40 °C), 5 °C and RT

Suppliers:

(1) Susonity Commercial GmbH, Germany and/or its affiliates

(2) Croda

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(3) Evonik Nutrition & Care GmbH

(5) H. Erhard Wagner GmbH

(7) Univar GmbH

(4) Merck KGaA, Darmstadt, Germany

(6) Stearinerie Dubois Fils

(8) RAHN GmbH

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