

FORMULATION example

MDA-S-155-06 Luxury Hydrating Self-Tanner SPF 15, Broad Spectrum

Ingredients	INCI (US)	[%]
A		
RonaCare® Bronzyl™	(1) DIHYDROXY METHYLCHROMONYL PALMITATE	0.20
Eusolex® OCR	(1) OCTOCRYLENE	10.00
Eusolex® 9020	(1) AVOBENZONE	2.00
RonaCare® AP	(1) BIS-ETHYLHEXYL HYDROXYDIMETHOXY BENZYL MALONATE	1.00
Tego® Care 215	(2) GLYCERYL STEARATE (AND) CETEARETH-15	2.00
Lanette® 18	(3) STEARYL ALCOHOL	2.00
Paracera M	(4) MICROCRYSTALLINE WAX	1.00
Cetiol® 868	(3) ETHYLHEXYL STEARATE	2.00
Schercemol™ OLO Ester	(5) OLEYL OLEATE	2.00
Miglyol® 812 N	(6) CAPRYLIC/CAPRIC TRIGLYCERIDE	1.00
Xiameter® PMX-200 Silicone Fluid (100cs)	(7) DIMETHICONE	0.50
B		
Ronastar® Golden Lights	(1) ALUMINA (OR ALTERNATIVELY: SYNTHETIC SAPPHIRE) (AND) TITANIUM DIOXIDE (AND) TIN OXIDE	3.00
RonaCare® Ectoin	(1) ECTOIN	0.30
1,2-Propanediol	(1) PROPYLENE GLYCOL	4.00
Keltrol® CG-RD	(8) XANTHAN GUM	0.25
Natrosol 250 HHR	(9) HYDROXYETHYLCELLULOSE	0.25
RonaCare® Disodium EDTA	(1) DISODIUM EDTA	0.10
Water, demineralized	WATER	ad 100
C		
DHA Plus	(1) DIHYDROXYACETONE (AND) SODIUM METABISULFITE (AND) MAGNESIUM STEARATE	3.35
Water, demineralized	WATER	10.00
D		
Preservatives	PRESERVATIVES	q.s.
Fragrance	FRAGRANCE	q.s.

Procedure:

Combine phase A.

Phase B: disperse Keltrol and Natrosol in water, then add remaining ingredients while stirring.

Heat phase A and phase B to 80°C. Add phase A to phase B slowly while stirring. Homogenize.

Cool down while stirring. Finally add premix phase C and phase D below 40°C.

Notes:

Appearance: gold shimmering O/W lotion

pH value (23°C): 4.7

Viscosity: 6,700 mPas (Brookfield model RV DV-II+, Helipath spindle C, 20 rpm) at 23°C

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

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Suppliers:

- | | |
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| (1) Merck KGaA, Darmstadt, Germany / EMD Performance Materials | (2) Evonik Nutrition & Care GmbH |
| (3) BASF AG | (4) Paramelt |
| (5) Lubrizol | (6) IOI Oleo GmbH |
| (7) Biesterfeld | (8) RAHN GmbH |
| (9) Aqualon GmbH | |

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