

FORMULATION example

MDA-S-201-12 SK05 SunSilk Soft Cream with SPF 30, UVA

Ingredients	Art. No.	INCI EU	[%]
A1			
Eusolex® T-PURE	1.05947 (1)	TITANIUM DIOXIDE (NANO), ALUMINA, SILICA	5.00
A2			
Eusolex® OS	1.06949 (1)	ETHYLHEXYL SALICYLATE	5.00
Oxyhex® ST Liquid	1.30217 (1)	DIETHYLHEXYL SYRINGYLIDENEMALONATE, CAPRYLIC/CAPRIC TRIGLYCERIDE	0.50
Cetiol® B	(2)	DIBUTYL ADIPATE	12.00
Cetiol® OE	(2)	DICAPRYLYL ETHER	6.00
Tegosoft® TN	(3)	C12-15 ALKYL BENZOATE	6.00
Dispersun DSP-OL100	(4)	POLYHYDROXYSTEARIC ACID	0.73
A3			
DHHB		DIETHYLAMINO HYDROXYBENZOYL HEXYL BENZOATE	3.00
Eusolex® BEMT	1.32992 (1)	BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE	2.50
Eusolex® EHT	1.32994 (1)	ETHYLHEXYL TRIAZONE	1.50
Nafol 1618H	(5)	CETEARYL ALCOHOL	2.00
B1			
Glycerol anhydrous (vegetable) EMPROVE® bio	1.37028 (1)	GLYCERIN	3.00
Complexing agent			q.s.
Water, demineralized		AQUA	ad 100
B2			
VIVAPUR® CS TEX SUN	(6)	MICROCRYSTALLINE CELLULOSE, CELLULOSE GUM	0.30
Solagum™ AX	(7)	XANTHAN GUM, ACACIA SENEGAL GUM	0.30
B3			
Amphisol® K	(8)	POTASSIUM CETYL PHOSPHATE	3.00
C			
RonaFlair® LDP White	1.17755 (1)	SODIUM POTASSIUM ALUMINUM SILICATE, CI 77891, SILICA	3.00
Preservatives			q.s.
Fragrance		PARFUM	q.s.

Procedure:

Disperse Phase A1 into phase A2 (Dissolver disc). Add phase A3 to phase A1/2. Disperse phase B2 in phase B1. Add phase B3 to phase B1/2. Heat phase A and phase B to 75-80 °C. Add phase A to phase B while stirring. Homogenize. Cool down while stirring. Add phase C at 40 °C.

Notes:

Appearance: off-white o/w soft cream

pH value: 6.5 (23 °C)

Viscosity: 20.000 mPa.s (Brookfield DV-II+, Helipath spindle C,10 rpm) at 23 °C

Stability: 1 months at 40 °C, FTC (-5 °C to +40 °C), 5 °C, RT and 1 week at 50 °C

Suppliers:

(1) Merck KGaA, Darmstadt, Germany / EMD Performance Materials Corp.

(2) BASF AG

(3) Evonik Nutrition & Care GmbH

(4) Innospec

(5) Sasol Germany GmbH

(6) J. Rettenmaier & Söhne GmbH

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(7) Seppic

(8) DSM Nutritional Products GmbH

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