

Formulation Example

MDA-S-146-01 Oceans 13 mineral cream SPF 50, broad spectrum

Ingredients		INCI (US)	[%]
A			
Eusolex® T-2000	(1)	TITANIUM DIOXIDE (AND) ALUMINA (AND) SIMETHICONE	4.00
RonaCare® Ectoin	(1)	ECTOIN	1.00
Glycerol, anhydrous	(1)	GLYCERIN	3.00
Vanzan NF	(2)	XANTHAN GUM	0.40
RonaCare® Disodium EDTA	(1)	DISODIUM EDTA	0.10
Water, demineralized		WATER	ad 100
В			
Eusolex® T-2000	(1)	TITANIUM DIOXIDE (AND) ALUMINA (AND) SIMETHICONE	3.50
Eusolex® T-S	(1)	TITANIUM DIOXIDE (AND) ALUMINA (AND) STEARIC ACID	6.00
RonaCare® AP	(1)	BIS-ETHYLHEXYL HYDROXYDIMETHOXY	1.50
Oxynex® ST Liquid	(1)	BENZYLMALONATE	0.50
Oxylicx® 31 Elquiu	(1)	DIETHYLHEXYL SYRINGYLIDENE MALONATE (AND) CAPRYLIC/CAPRIC TRIGLYCERIDE	0.50
Montanov 202	(3)	ARACHIDYL ALCOHOL (AND) BEHENYL ALCOHOL (AND) ARACHIDYL GLUCOSIDE	3.50
Montanov 14	(3)	MYRISTYL ALCOHOL (AND) MYRISTYL	1.50
Catial® AB	(4)	GLUCOSIDE	2.00
Cetiol® AB Miglyol 812	(4) (5)	C12-15 ALKYL BENZOATE CAPRYLIC/CAPRIC GLYCERIDES	3.00 8.00
Arlamol HD	(6)	ISOHEXADECANE	2.00
Anamor no	(0)	ISOTIENADECANE	2.00
С			
RonaFlair® LDP White	(1)	SODIUM POTASSIUM ALUMINIUM SILICATE (AND) TITANIUM DIOXIDE (AND) SILICA	3.00
BRB PTM 20	(7)	PHENYL TRIMETHICONE	2.00
Preservatives	. ,	PRESERVATIVES	q.s.
Fragrance		FRAGRANCE	q.s.
			4.5.

Procedure:

For phase A weigh in RonaCare® EDTA, Ectoin, water and glycerin and mix until all ingredients dissolve. Slowly add xanthan gum and mix until well dispersed (with light heating up it dissolves faster). Prepare phase B ingredients in a separate beaker. Heat phase A and B to 75-80°C. Disperse Eusolex® T-2000 using a dissolver blade in phase A and phase B, as well as Eusolex® T-S. Add B to A and homogenize. Cool to 40°C. Then add phase C, one ingredient at a time. Homogenize and cool down.

Notes:



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Appearance: white to offwhite cream (o/w)

pH (23°C): 6.8

Viscosity: 34,000 mPa.s (Brookfield RVT, Helipath spindle C, 10 rpm) at 23°C Stability: 3 months at 40°C, FTC (5°C-40C), 5°C, RT and 1 week at 50°C

Suppliers:

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

(2) R. T. Vanderbilt Company Inc(4) BASF AG

(3) Seppic(5) Sasol

(4) DASI AC

(7) Stockmeier Chemie

(6) Croda

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