

Formulation Example

MDA-S-078-04 Sunscreen Fluid in vivo SPF 40.4, UVA

Ingredients	Art. No.	INCI EU (INCI US, if different)	[%]
A			
Eusolex® OCR	1.05377 (1)	OCTOCRYLENE	10.00
Eusolex® 9020	1.05844 (1)	BUTYL METHOXYDIBENZOYLMETHANE (AVOBENZONE)	4.00
Eusolex® T-AVO	1.05335 (1)	TITANIUM DIOXIDE (NANO) (TITANIUM DIOXIDE), SILICA	10.00
RonaCare® AP	1.30163 (1)	BIS-ETHYLHEXYL HYDROXYDIMETHOXY BENZYL MALONATE	1.00
RonaFlair® LDP White	1.17755 (1)	SODIUM POTASSIUM ALUMINUM SILICATE, CI 77891 (TITANIUM DIOXIDE), SILICA	2.00
Eusolex® BEMT	1.32992 (1)	BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE (NOT REGISTERED)	2.00
Cithrol™ DPHS	(2)	PEG-30 DIPOLYHYDROXYSTEARATE	2.50
Abil WE 09	(3)	POLYGLYCERYL-4 ISOSTEARATE, CETYL PEG/PPG- 10/1 DIMETHICONE, HEXYL LAURATE	2.50
DOWSIL™ 5200 Formulation Aid	(4)	LAURYL PEG/PPG-18/18 METHICONE	1.00
Cosmedia Gel CC	(5)	DICAPRYLYL CARBONATE, STEARALKONIUM HECTORITE, PROPYLENE CARBONATE	2.00
Xiameter™ PMX-0246 Cyclohexasiloxane	(4)	CYCLOHEXASILOXANE, CYCLOPENTASILOXANE	3.00
Xiameter® PMX-200 Silicone Fluid (100cs)	(4)	DIMETHICONE	2.50
Xiameter® PMX-0245	(4)	CYCLOPENTASILOXANE	10.00
Cetiol® CC	(5)	DICAPRYLYL CARBONATE	5.00
Lanol 99	(6)	ISONONYL ISONONANOATE	6.00
B			
Glycerol, anhydrous		GLYCERIN	3.00
1,2-Propanediol		PROPYLENE GLYCOL	2.00
Complexing agent (q.s.)			0.10
RonaCare® Magnesium Sulfate	1.32219 (1)	MAGNESIUM SULFATE	0.50
Neutralizing agent (q.s.)			0.00
Water, demineralized		AQUA (WATER)	22.90
C			
SDA 40 B		DENAT. ALCOHOL	8.00
Preservatives		PRESERVATIVES	q.s.

Procedure:

Adjust the pH value of the water phase to pH 6 with Triethanolamine. Heat phase A and phase B to 75°C. Add phase B to phase A under stirring. Homogenize. Add the ingredients of phase C separately at 40°C and cool down under stirring.

Notes: Not allowed in US/Canada

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Appearance: yellowish milk (W/Si)

Viscosity: 3,000 mPa.s (Brookfield, RVD II +, Helipath, spindle B, 10 rpm, 23°C)

Stability: 3 months at RT, 5°C, FTC (-5°C to +40°C), 40°C and 1 week at 50°C

Suppliers:

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

(3) Evonik Nutrition & Care GmbH

(5) BASF AG

(2) Croda

(4) Univar GmbH

(6) Seppic

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