

Formulation Example

MDA-A-134-03 Self Tanning Gel with DHA Plus

Ingredients

	INCI (US)	[%]
A		
Sepinov P88	(1) SODIUM ACRYLATE/ACRYLOYLDIMETHYLTAURATE/DIME THYLACRYLAMIDE CROSSPOLYMER	1.50
Miglyol® 812 N	(2) CAPRYLIC/CAPRIC TRIGLYCERIDE	6.50
Tegosoft® Liquid	(3) CETEARYL ETHYLHEXANOATE	6.50
Xiameter® PMX-0345	(4) CYCLOPENTASILOXANE (AND) CYCLOHEXYSILOXANE	1.20
Xiameter® PMX-200 Silicone Fluid (100cs)	(4) DIMETHICONE	0.50
B		
1,2-Propanediol	(5) PROPYLENE GLYCOL	3.00
Water, demineralized	WATER	ad 100
C		
DHA Plus	(5) DIHYDROXYACETONE (AND) SODIUM METABISULFITE (AND) MAGNESIUM STEARATE	2.20
Water, demineralized	WATER	10.00
D		
Preservatives	PRESERVATIVES	q.s.

Procedure:

Add phase A with vigorous stirring slowly to phase B. Mix until homogeneous.

Prepare phase C by dispersing DHA Plus in water and add to the gel.

Finally add phase D.

Notes:

pH value (24°C) : 3.4

Viscosity : 8,000 mPa.s (Brookfield RVT, Helipath spindle C, 10 rpm) at 23°C

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

Suppliers:

(1) Seppic GmbH

(2) IOI Oleo GmbH

(3) Evonik Nutrition & Care GmbH

(4) Biesterfeld

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

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