

FORMULATION EXAMPLE

MC-FW-120912/A Delicate Fairness Gel

Ingredients	INCI (US)	[%]
A		
RonaCare® Ectoin	(1) ECTOIN	1.00
RonaCare® Allantoin	(1) ALLANTOIN	0.30
1,3-Butanediol	(1) BUTYLENE GLYCOL	4.00
RonaCare® Disodium EDTA	(1) DISODIUM EDTA	0.10
Xanthan Gum	(2) XANTHAN GUM	0.30
Water, demineralized	WATER	ad 100
B		
RonaCare® AP	(1) BIS-ETHYLHEXYL HYDROXYDIMETHOXY BENZYL MALONATE	1.00
RonaCare® Bisabolol	(1) BISABOLOL	0.20
Olivem 1000	(3) CETEARYL OLIVATE, SORBITAN OLIVATE	3.50
Lanette O	(4) CETEARYL ALCOHOL	2.00
Miglyol 812	(5) CAPRYLIC/CAPRIC TRIGLYCERIDE	4.00
Arlamol HD	(5) ISOHEXADECANE	3.00
DC 345 Fluid	(6) CYCLOPENTASILOXANE, CYCLOHEXASILOXANE	1.00
DC 200 fluid (5cst)	(6) DIMETHICONE	1.00
Aristoflex AVC	(7) AMMONIUM ACRYLOYLDIMETHYLTAURATE / VP COPOLYMER	0.50
C		
Sepiplus 400	(8) POLYSORBATE 20, POLYACRYLATE 13, POLYISOBUTENE	1.50
D		
Emblica®	(1) PHYLLANTHUS EMBLICA FRUIT EXTRACT	1.00
RonaFlair® Boroneige® SF-3	(1) BORON NITRIDE	3.00
(S)-Lactic acid about 90%	(1) LACTIC ACID (AND) WATER	0.10
Sodium disulfite	(7) SODIUM METABISULFITE	0.10
Triethanolamine, 50%	(1) TRIETHANOLAMINE	0.40
Water, demineralized	AQUA	10.00
Preservatives		q.s.

Procedure:

1. Heat phase A up to 75 °C and mix until uniform.
2. Mix phase B and heat to 75 °C.
3. Add phase A into phase B and homogenize for 3 min. at 3000 rpm.
4. At 62 - 65 °C, add phase C and stir until uniform.
5. Cool down to room temperature and add phase D while stirring.

Notes:

Appearance: beige cream gel

pH (23 °C): 5.5

Viscosity.: 35,000 cps (Brookfield RVT T-B, 12 rpm, heliopan, 60s)

Stability: 3 months at RT, 40 °C and 1 month FTC -18 °C-40 °C

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Suppliers:

- | | |
|--|------------------------|
| (1) Merck KGaA, Darmstadt, Germany / EMD Performance Materials | (2) Jungbunzlauer GmbH |
| (3) Yasham Bio-Science Pvt. Lmt. | (4) BASF AG |
| (5) Croda | (6) Dow Corning |
| (7) Clariant GmbH | (8) Seppic GmbH |

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