

# FORMULATION EXAMPLE

## MC-FW-120912/A Delicate Fairness Gel

### Ingredients

	INCI (US)	[%]
<b>A</b>		
<b>RonaCare® Ectoin</b>	(1) ECTOIN	<b>1.00</b>
<b>RonaCare® Allantoin</b>	(1) ALLANTOIN	<b>0.30</b>
1,3-Butanediol	(1) BUTYLENE GLYCOL	4.00
<b>RonaCare® Disodium EDTA</b>	(1) DISODIUM EDTA	<b>0.10</b>
Xanthan Gum	(2) XANTHAN GUM	0.30
Water, demineralized	WATER	ad 100
<b>B</b>		
<b>RonaCare® AP</b>	(1) BIS-ETHYLHEXYL HYDROXYDIMETHOXY BENZYL MALONATE	<b>1.00</b>
<b>RonaCare® Bisabolol</b>	(1) BISABOLOL	<b>0.20</b>
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
<b>C</b>		
Sepiplus 400	(8) POLYSORBATE 20, POLYACRYLATE 13, POLYISOBUTENE	1.50
<b>D</b>		
<b>Emblica®</b>	(1) PHYLLANTHUS EMBLICA FRUIT EXTRACT	<b>1.00</b>
<b>RonaFlair® Boroneige® SF-3</b>	(1) BORON NITRIDE	<b>3.00</b>
(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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