

Aqua Cream Gel For Dry Skin (O/W)

Modukine™

FORMULA No. 380.20.0325

Phase	Trade Name	INCI Name	w/w %	Supplier
A	Myritol 318	Caprylic/Capric Triglyceride	1.75	Cognis
	Estol 3609	Triethylhexanion	1.75	Uniqema
	Ceraphyl 368	Octyl Palmitate	1.75	ISP
	Arlamol E	PPG-15 Stearyl Ether	1.75	Uniqema
	Stearic Acid	Stearic Acid	1.0	Cognis
B	Water	Aqua	ad100	
	Keltrol CG-SFT	Xanthan Gum	0.2	CP Kelco
	Glycerin	Glycerin	2.1	Merck
	Allantoin	Allantoin	0.05	ISP Sutton
	D-Panthenol	Panthenol	0.5	Roche
	Atlas G-2330	Sorbeth-30	3.0	Uniqema
	Arlatone 2121	Sorbitan Stearate and Sucrose Cocoate	5.5	Uniqema
C	Modukine™	Lactose, Milk Protein	0.5	CLR
	Sodium Citrate x 2H ₂ O	Sodium Citrate	0.12	
	Water	Aqua	9.38	
D	Euxyl PE9010*	Phenoxyethanol, Ethylhexylglycerin	0.6	Schuelke&Mayr
E	Citric Acid (10%)	Citric Acid	q.s.	

Manufacture

Disperse the Xanthan Gum into water under stirring. Add the other parts of B and mix A. Heat up A and B to 80°C separately. Homogenize B for 30 seconds at 80°C. Leave B into the water bath for 20 minutes. Slowly add A to B under stirring and homogenize for 1 minute. Cool down under stirring and add the predispersed phase C and D under stirring at room temperature. Adjust pH value to 5.5 – 5.8 with E and stir.

Facial Moisturizer (SPF15) for Normal/Dry Skin with PureSyn™ 6, 3E20 and 3000

pH = 6.75

Viscosity = 50,000 cPs

Description

This oil-in-water emulsion is designed to provide an SPF of 8 - 15 with good UVA absorptivity. PureSyn 6 and 3E20 should assist in the solubilization and coupling of the sunscreen actives while PureSyn 3000 should provide a smooth non-greasy after-feel.

Phase	Ingredient	INCI Designation	Wt%
A	Deionized Water	Water	66.10
A	Carbopol Ultrez 10	Carbomer	0.20
A	Glycerine 96%	Glycerin	3.00
A	Disodium EDTA	Disodium EDTA	0.10
A	Arlatone 2121	Sorbitan Stearate (and) Sucrose Cocoate	5.00
B	Menthyl Anthranilate	Menthyl Anthranilate	4.00
B	Lipomulse 165	Glyceryl Stearate (and) PEG-100 Stearate	0.50
B	Uvinul M40	Oxybenzone	2.00
B	Uvinul MC80	Octyl Methoxycinnamate	7.50
B	PureSyn 6	Hydrogenated Polydecene	3.00
B	PureSyn 3E20	Trimethylolpropane Tricaprylate/Tricaprate	5.00
B	PureSyn 3000	Polydecene	2.00
C	Triethanolamine 99%	Triethanolamine	0.30
D	Intarome BQT 40080	Fragrance	0.30
E	Germaben II	Propylene Glycol (and) Diazolidinyl Urea (and) Methylparaben (and) Propylparaben	1.00
	Total		100.00

Blending Procedure

1. Heat phase A to 70C
2. Heat phase B to 70C
3. Add phase B to phase A
4. Keep temperature at 70C and mix until uniform
5. Add phase C
6. Cool to 45C and add remaining phases

Skin Soothing Lotion

INGREDIENTS: % WT.

Phase A

Water	81.65
Aloe concentrate 10X, cosmetic grade	1.00
Glydant Plus (Lonza)	0.30
Glycerine	2.00

Phase B

Cetyl alcohol	0.50
Tocopheryl acetate	0.05
Finsolv TN (Finetex)	2.00
Cocoa butter	5.00
Kava Extract BG90/10	5.00

Phase C

Salcare 96	2.50
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PROCEDURE:

Combine phase A Ingredients; mix and heat to 45[degrees]C. Heat phase B to 45[degrees]C; mix until clear. Add phase B to phase A with rapid agitation. Add Salcare 96 to batch: begin sweep mixing. When batch is uniform, stop propeller and sweep mix only at moderate speed.

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Oil-in-Water Volatile Silicone Cream

<u>Ingredients:</u>	<u>Wt%</u>
A Arlamol S7	40.0
B Arlatone 2121	5.5
Glycerol	4.0
Preservative	q.s.
Water	50.4
C Keltrol*	0.1

Manufacture:

1. Mix the Arlatone 2121 in the heated water phase at 80C under moderate stirring until a homogeneous dispersion is formed.
2. Disperse the hydrocolloid in the heated aqueous phase at 75C with moderate stirring.
3. Add the heated oil phase to the aqueous phase under intensive stirring.
4. Homogenise the mixture intensively at 75C for one minute.
5. Cool to 35C whilst stirring moderately.
6. Add heat-sensitive ingredients whilst stirring moderately.

Comment:

During the cooling process (step 5), when Arlatone 2121 emulsion starts to build up in the lamellar crystalline structure, moderate stirring is recommended. Intensive stirring can break down the lamellar structure and can reduce the final viscosity. The viscosity of the formulation is inversely proportional to the mixing energy that has been put into the emulsion during manufacture.

Comments:

Viscosity: 62,400 mPa s (Brookfield LVT, spindle E, 1.5 rpm)
Energy input is related to final formulation viscosity.

*Keltrol (Xanthan Gum, INCI)-Kelco

SOURCE: ICI Surfactants: Suggested Formulations