

# cushion cream Q10- SPF 13 in vitro (EU)

formula #: 200-10046A

material #: 860410

ingredients (trade name   INCI name)		%w/w	supplier
<b>phase a</b>			
Deionized Water	Aqua (water)	35.2200	Local
Lubrajel* II XB Free hydrogel	Glycerin (and) Glyceryl Polyacrylate	3.0000	Ashland
Tetrasodium EDTA	Tetrasodium EDTA	0.0300	Local
<b>phase b</b>			
Belsil* DM10	Dimethicone	3.0000	Wacker
Escalol™ 587 UV filter	Ethylhexyl Salicylate (Octisalate)	5.0000	Ashland
Escalol™ 597 UV filter	Octocrylene	5.0000	Ashland
Escalol™ S UV filter	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine (Bemotrizinol)	3.0000	Ashland
Ceralution* H	Disodium Ethylene Dicocoamide PEG-15 Disulfate (and) Behenyl Alcohol (and) Glyceryl Stearate (and) Glyceryl Stearate Citrate	5.0000	Sasol Performance Chemicals
<b>phase c</b>			
Unipure White LC981 EM	Titanium Dioxide (and) Silica	2.0000	Sensient Cosmetic Technologies
<b>phase d</b>			
Deionized Water	Aqua (water)	25.0000	Local
FlexiThix™ polymer	PVP	1.0000	Ashland
<b>phase e</b>			
Optiphen™ Plus preservative	Phenoxyethanol (and) Caprylyl Glycol (and) Sorbic Acid	1.5000	Ashland
Peptide Q10™ biofunctional	Water (and) Propanediol (and) Pentapeptide-34 Trifluoroacetate	0.5000	Ashland
Dub Diol	Methylpropane Diol	3.0000	Seppic
Zemea* Propanediol (Liquid)	Propanediol	4.0000	Dupont Tate & Lyle Bio Products
Covacryl* MV 60	Sodium Polyacrylate	1.5000	Sensient Cosmetic Technologies
Red 40 (CI 16035) (0.10% Aqueous Solution)	Red 40 (CI 16035)	0.8000	Local
Unicert Yellow 08005-J (sol. 0.1%)	Water/Aqua (and) CI 19140 (Yellow 5)	1.0000	Sensient Cosmetic Technologies
<b>phase f</b>			
Lactic Acid	Lactic Acid	0.1500	Local
<b>phase g</b>			
PF Soleil Rayonnant	Parfum/Fragrance (and) Benzyl Salicylate	0.3000	Technicoflor
<b>total</b>		<b>100.00</b>	

## procedure

In the main vessel homogenize and heat phase a at 75C.

In a side beaker heat phase b at 75C.

At 75C, incorporate phase b into phase a slowly and homogenize.

Cool down.

At 55C, add phase c into phase ab and mix until uniform.

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At RT, premix phase d in a side beaker: sprinkle in FlexiThix in water and homogenize until smooth.

At 40C, add phase d and mix until homogeneous.

At 40C, add phase e (premix until smooth at RT) and mix until uniform.

At 30C, add phase f and mix well.

At 30C, add phase g and mix well.

Stop at 25C.

## typical properties

description: Light orange bouncy cream

pH: 5.0-5.5

viscosity: 70,000-120,000cps (Brookfield RVT/Spindle D/5 RPM/1 minute/25C)

stability/challenge information: This formula passed standard stability protocol and micro challenge testing. The preservative system, however, has not been optimized to its lowest effective level.

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