

CA1055 Whitening Sunscreen with SPF 15

Ingredients	%(w/w)	Functions	INCI designation	Supplier
Phase 1				
Emulium 22	4	O/W emulsifier	Tribehenin PEG-20 Esters	Gattefosse
TNP50VTTS	10	TiO ₂ dispersion	C12-C15 Alkyl Benzoate (and) Titanium Dioxide (and) Alumina (and) Polyhydroxystearic Acid (and) Isopropyl Titanium Triisostearate/ Triethoxycaprylsilane Crosspolymer	Kobo
BC Volatile 5	5	Feeling agent	Cyclomethicone	Basildon
Siltech CE-2000	2	Feeling agent	Trioctyldodecyl citrate	Siltech
Phase 2				
Deionised water	29.7			
Ultrez 20	0.3	Gelling agent		
Phase 3				
Xanthan Gum	0.3	Gelling agent		
Glycerine	5	Moisturizer		
Phase 4				
NaOH (50% Soln.)	0.3	Rheology modifier		
Phase 5				
Sohakuhi Extract BG-100	2	Whitening agent	Butylene Glycol (and) Morus Alba Root extract	Ikeda
Extrait Originel Apple	40	Fruit water	Apple Fruit water	Gattefosse
Microcare MTP	0.2	Preservative		
Perfume	0.2	Fragrance		Technico
BPA-500	1	Filler	Polymethyl methacrylate	Kobo
Total	100			

Process:

1. Predisperse Xanthan Gum into Glycerine and stir until homogenous.
2. Add in Phase 3 into Phase 2 and stir until homogenous.
3. Add in Phase 1 heated to 75-80°C into Phase 2+3 heated to 75-80°C and stir rapidly for about 10 minutes.
4. Add in Phase 4 into Phase 1+2+3 and stir until homogenous.
5. Cool while stirring.
6. Add in the ingredients in Phase 5 into Phase 1+2+3+4 and stir until homogeneous.
7. Complete cooling.

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