

balance & clear cream

formula #: 100-10121A

material #: 876616

ingredients (trade name INCI name)		%w/w	supplier
phase a			
Deionized Water	Aqua (water)	51.1000	Local
Disodium EDTA	Disodium EDTA	0.1000	Local
Glycerin	Glycerin	5.0000	Local
Stabileze™ QM polymer	PVM/MA Decadiene Crosspolymer	1.5000	Ashland
Methylparaben	Methylparaben	0.3000	Local
phase b			
Arlacel* 165	Glyceryl Stearate (and) PEG-100 Stearate	3.5000	Croda
Ceraphyl™ 375 ester	Isostearyl Neopentanoate	3.0000	Ashland
Ceraphyl™ ODS ester	Octyldodecyl Stearate	5.0000	Ashland
Emulsynt™ GDL ester	Glyceryl Dilaurate	3.5000	Ashland
Ceraphyl™ 230 ester	Diisopropyl Adipate	3.0000	Ashland
Belsil* PDM 20	Trimethylsiloxyphenyl Dimethicone	3.0000	Wacker
phase c			
DMF- 350CS	Dimethicone	1.0000	Shin-Etsu Silicone
Elixiance™ biofunctional	Propanediol (and) Water/Aqua (and) Schinus molle Extract /Propanediol (and) Water/Aqua (and) Bioflavonoids	1.0000	Ashland
phase d			
Salicylic Acid	Salicylic Acid	2.0000	Local
Deionized Water	Aqua (water)	10.0000	Local
Sodium Hydroxide (10% aqueous solution)	Sodium Hydroxide	7.0000	Local
total		100.00	

procedure

In a beaker ,weigh ingredients of phase a and mix.

Sprinkle Stabileze QM polymer and homogenize.

Heat batch to 70-75C while homomix.

In a separate beaker, combine ingredients of phase b and heat to 70-75 C while mixing.

Add phase b to phase a and continue to homogenize for 15 minutes until uniform.

Cool Batch to 50 C and add phase c to phase ab and homomix.

Begin cooling batch to 49C.

Combine water and Salicylic acid of phase d.

Add Sodium hydroxide little by little and adjust pH to 4.30 - 4.50.

Add phase d to phase abc and homogenize for 5 minutes until all in.

Change to sweep mixing to RT.

Stop at RT.

typical properties

description: Smooth cream

pH: 3.70 -4.30

viscosity: 35,000 cps- 45,000 cps (Brookfield RVT/Spindle D/5 rpm/1 minute/25C)

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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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