

Guide Formulation

Personal Care

Physical Tone Up Sunscreen (SPF35, PA++) (MS_10)

This sunscreen gives a matte effect and has a velvet feel. **SeraSilk® EL 81** has a fast volatility and gives a non-tacky, dry, smooth after-feel. **SeraSense® AC15** is a soft, flexible film former which gives water resistance.

Raw Material/INCI Name	% w/w	Trade name/Supplier	Function
Phase A			
Dimethicone	18.50	SeraSense® SF 6/KCC Beauty	Solvent/Emollient
Acrylates/Dimethicone Copolymer (and) Cyclopentasiloxane	3.00	SeraSense® AC15/KCC Beauty	Fixative
Phenyl Trimethicone	2.00	SeraSense® SF PTM/KCC Beauty	Solvent/Emollient
Cetyl PEG/PPG-10/1 Dimethicone	2.00	SeraSol® SC 83-A/KCC Beauty	Emulsifier
PEG-10 Dimethicone	2.00	SeraSol® SC 86A/KCC Beauty	Emulsifier
Lauryl PEG-8 Dimethicone	1.00	SeraSol® SC 95/KCC Beauty	Emulsifier
Stearyl Dimethicone (and) Octadecene	1.00	SeraSoft® SW 70-A/KCC Beauty	Rheology Modifier
Dimethiconol (and) Isododecane (and) Dimethicone/Vinyl Dimethicone Crosspolymer	2.00	SeraSilk® EL 81/KCC Beauty	Skin Conditioning
Titanium Dioxide	2.00	TiO2 407 AS/K.S. Pearl	Pigment
Titanium Dioxide (and) Aluminium Hydroxide (and) Stearic Acid (and) Cyclopentasiloxane (and) PEG-10 Dimethicone	15.00	Choice Titan 40/Choice Trade	UV Absorber
Zinc Oxide (and) Hydrogen Dimethicone (and) Coco-Caprylate/Caprates	15.00	Choice Zinc 60CC/Choice Trade	UV Absorber
Phase B			
Aqua (Water)	To 100	-	Vehicle
1,3-Butylene Glycol	2.50	Various	Humectant
Glycerin	1.50	Various	Humectant
Sodium Chloride	0.80	Various	Buffer
Phase C			
Nylon-12	3.50	SP-500/Kobo	Skin Feel Enhancer
Phase D			
Phenoxyethanol	0.30	Various	Preservative
Caprylhydroxamic Acid (and) Caprylyl Glycol (and) Glycerin	0.30	Various	Preservative

Parfum (Fragrance)	q.s. -	Fragrance
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Typical Properties

Appearance:	Beige, viscous emulsion
Viscosity @ 25°C:	18,000 - 22,000cP (Brookfield LVDV II, LV4, 6rpm)
pH @ 25°C:	n/a

Method

Mix the ingredients of Phase A until homogenous.

In a separate vessel, mix the ingredients of Phase B until homogenous. Add Phase B to A with stirring.

Slowly add Phase C to A+B, with stirring.

Add D to the batch and stir until homogenous.



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Please note that the above formulation is only intended as a guide. It is not a commercial formulation and has not been tested as such. The formulation should be evaluated and modified for your own requirements before use. Also suggestions of uses should not be taken as inducements to infringe any particular patent.