

Guide Formulation

Personal Care

12hr UV Protect Cream (SUJ13J_07AA)

This light-feeling, waterproof sunscreen can also be used as a make-up base. SeraSense® SF CPM (Caprylyl Methicone) is a volatile silicone which reduces the rub-in time of creams and lotions. SeraSol® SC 86A (PEG-10 Dimethicone) is a strong W/O emulsifier and humectant. SeraSol® EL 92A (Dimethicone (and) Dimethicone/PEG-10/15 Crosspolymer) is a high-stable elastomeric emulsifier which gives a non-greasy feel.

Raw Material/INCI Name	% w/w	Trade name/Supplier	Function
Phase A			
Caprylyl Methicone	10.00	SeraSense® SF CPM/KCC Beauty	Solvent/Emollient
Dimethicone	5.00	SeraSense® SF 6/KCC Beauty	Moisturising
Phenyl Trimethicone	3.00	SeraSense® SF PTM/KCC Beauty	Solvent/Emollient
PEG-10 Dimethicone	1.00	SeraSol® SC 86A/KCC Beauty	W/O Emulsifier
Dimethicone (and) Dimethicone/PEG-10/15 Crosspolymer	3.00	SeraSol® EL 92A/KCC Beauty	Emulsifying Elastomer
Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer	1.00	SeraSilk® EL 61/KCC Beauty	Skin Feel/Viscosity Modifier
Disteardimonium Hectorite	1.00	Bentone 38V/Elementis Speciality	Thickener
Ethylhexylmethoxycinnamate	7.00	Uvinul MC-80/BASF	UVB Absorber
Ethylhexyl Salicylate	4.50	Parsol EHS/DSM	UVB Absorber
Mica (and) Titanium Dioxide	1.50	Flamenco Red 420C/BASF	Pigment
Titanium Dioxide (and) Aluminium Hydroxide (and) Stearic Acid (and) Cyclopentasiloxane (and) PEG-10 Dimethicone	5.00	ChoiceTitan 40/Choice Trade	UV Absorber
Phase B			
Aqua (Water)	To 100	-	Vehicle
Dipropylene Glycol	5.00	Various	Humectant
Portulaca Oleracea (Purselane) Extract	3.00	Various	Skin Conditioning
Sodium Chloride	1.00	Various	Emulsion Stabiliser
Phase C			
Phenoxyethanol	0.40	Various	Preservative
Caprylhydroxamic Acid (and) Caprylyl Glycol (and) Glycerin	0.40	Spectrastat/Inolex	Preservative
Parfum (Fragrance)	q.s.	-	Fragrance

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Typical Properties

Appearance:	Light pink, viscous cream
Viscosity @ 25°C:	15000 - 20000cP (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.

Check viscosity.



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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.

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