



## 12hr UV Protect Cream (SUJ13J\_07AA)

This light-feeling, waterproof sunscreen can also be used as a makeup base. **SeraSense® SF CPM** is volatile which reduces the play-time and residue of the formula, whilst **SeraSol® SC 86A** emulsifies and acts as a humectant. **SeraSol® EL 92A** is an elastomeric emulsifier which leaves a non-greasy feel.

Raw Material/INCI Name	% w/w	Trade name/Supplier	Function
<b>Phase A</b>			
<b>Caprylyl Methicone</b>	<b>10.00</b>	<b>SeraSense® SF CPM/KCC Beauty</b>	<b>Solvent/Emollient</b>
<b>Dimethicone</b>	<b>5.00</b>	<b>SeraSense® SF 6/KCC Beauty</b>	<b>Moisturising</b>
<b>Phenyl Trimethicone</b>	<b>3.00</b>	<b>SeraSense® SF PTM/KCC Beauty</b>	<b>Solvent/Emollient</b>
<b>PEG-10 Dimethicone</b>	<b>1.00</b>	<b>SeraSol® SC 86A/KCC Beauty</b>	<b>W/O Emulsifier</b>
<b>Dimethicone (and) Dimethicone/PEG-10/15 Crosspolymer</b>	<b>3.00</b>	<b>SeraSol® EL 92A/KCC Beauty</b>	<b>Emulsifying Elastomer</b>
<b>Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer</b>	<b>1.00</b>	<b>SeraSilk® EL 61/KCC Beauty</b>	<b>Skin Feel/Viscosity Modifier</b>
Disteardimonium Hectorite	1.00	Bentone 38V/Elementis Speciality	Thickener
<b>Ethylhexylmethoxycinnamate</b>	<b>7.00</b>	<b>Vida-Care SP-1/KCC Basildon</b>	<b>UVB Absorber</b>
<b>Ethylhexyl Salicylate</b>	<b>4.50</b>	<b>Vida-Care SP-5/KCC Basildon</b>	<b>UVB Absorber</b>
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
<b>Phase B</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
<b>Phase C</b>			
Phenoxyethanol	0.40	Various	Preservative
Caprylhydroxamic Acid (and) Caprylyl Glycol (and) Glycerin	0.40	Spectrastat/Inolex	Preservative
Parfum (Fragrance)	q.s.	-	Fragrance

## 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.

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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