

## Daily Sun Protection Cream (SUJ13F\_008A)

This light-feeling, waterproof sunscreen can also be used as a makeup base. **SeraSense® SF CM5** increases rate of absorption and leaves a cooling sensation, whilst **SeraSense® SF 6** aids spreading and moisturises. **SeraSilk® EL 61** gives a silky smooth finish and provides a blurring effect, and **SeraSol® SC 86A** emulsifies. The formula has the potential to provide protection equivalent to SPF 30 and PA++.

Raw Material/INCI Name	% w/w	Trade name/Supplier	Function
<b>Phase A</b>			
<b>Cyclopentasiloxane</b>	<b>10.00</b>	<b>SeraSense® SF CM5/KCC Beauty</b>	<b>Cool Feeling/Fast Absorption</b>
<b>Phenyl Trimethicone</b>	<b>3.00</b>	<b>SeraSense® SF PTM/KCC Beauty</b>	<b>Brightening Effect</b>
<b>Dimethicone</b>	<b>4.00</b>	<b>SeraSense® SF 6/KCC Beauty</b>	<b>Aids Spreading</b>
Disteardimonium Hectorite	1.00	Bentone 38V/Elementis Specialities	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>
Pigment Base	1.00	Various	Pigment
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>PEG-10 Dimethicone</b>	<b>3.00</b>	<b>SeraSol® SC 86A/KCC Beauty</b>	<b>W/O Emulsifier</b>
<b>Dimethicone (and) Dimethicone/Vinyl Dimethicone Crosspolymer</b>	<b>2.00</b>	<b>SeraSilk EL® 61/KCC Beauty</b>	<b>Silky Feel</b>
Cetyl Ethylhexanoate	4.00	CEH/Kokyu Alcohol	Emollient
<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:	White, viscous cream
Viscosity @ 25°C:	>25000cP (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.