



## Sunscreen with Coconut Oil<sub>(SUN-3)</sub>

This rich and smooth formulation provides high protection against UV thanks to the drop-in blend **Vida-Care USB-50+**, whilst the nourishing nature of coconut and olive oils in **SeraShine® EM 807** conditions and moisturises the skin. **Vida-Care AVP-20** provides wear and water resistance, whilst **Vida-Care Carbomer CG** thickens and stabilises.

Raw Material/INCI Name	% w/w	Trade name/Supplier	Function
<b>Phase A</b>			
Aqua (Water)	To 100	-	Vehicle
Disodium EDTA	0.05	Edeta BD/BASF	Chelating Agent
Glycerin	3.00	Surfac G995V/Surfachem	Humectant
<b>Carbomer</b>	<b>0.50</b>	<b>Vida-Care Carbomer CG/KCC Basildon</b>	<b>Thickener</b>
<b>Phase B</b>			
Ethylhexyl Palmitate	5.00	Cegesoft C 24/Basf (Cornelius)	Emollient
<b>VP/Eicosene Copolymer</b>	<b>1.50</b>	<b>Vida-Care AVP 20/KCC Basildon</b>	<b>Film-Former</b>
<b>Octocrylene (and) Ethylhexyl Methoxycinnamate (and) Ethylhexyl Salicylate (and) Ethylhexyl Triazone (and) Diethylamino Hydroxybenzoyl Hexyl Benzoate (and) Di-C12-13 Alkyl Malate (and) Diisopropyl Adipate</b>	<b>30.00</b>	<b>Vida-Care USB-50+/KCC Basildon</b>	<b>UVA and UVB Inhibitor</b>
Glyceryl Stearate (and) PEG-100 Stearate	2.00	Arlacel 170/Croda	Emulsifier
Steareth-21	1.00	Eumulgin S 21/BASF (Cornelius)	Emulsifier
Cetearyl Alcohol	1.00	Crodacol CS90/Croda	Emulsifier
Phenoxyethanol (and) Ethylhexylglycerin	1.00	Euxyl PE9010/Schülke	Preservative
<b>Phase C</b>			
Aminomethylpropanol	0.50	AMP-ULTRA PC 2000/Angus	Neutralising Amine
Aqua (Water)	0.50	-	Vehicle
<b>Phase D</b>			
<b>Cocos Nucifera (Coconut) Oil (and) Olea Europaea (Olive) Fruit Oil (and) C12-14 sec-Pareth-9 (and) Laureth-4</b>	<b>9.62</b>	<b>SeraShine® EM 807/ KCC Beauty</b>	<b>Conditioning Agent</b>
Parfum (Fragrance)	0.50	-	Fragrance
Citric Acid	<i>q.s.</i>	Surfac Citric Acid Mono BP/Surfachem	pH Adjuster

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## Typical Properties

Appearance:	Viscous, pale yellow cream
Viscosity @ 25°C:	80,000 - 120,000 cP (Brokfield Helipath T Bar F, 20 rpm)
pH @ 25°C:	6.5 - 7.5

### Method

Add the water to the vessel. Add the EDTA and stir until dissolved.

Slowly sprinkle the Vida-Care Carbomer CG into a vortex and stir until fully dispersed. Homogenise if required. Heat blend to 70-75°C.

In a separate vessel, premix the ingredients of Phase B and heat to 70-75°C with stirring. Add to the water phase and stir until homogenous whilst cooling.

Allow to cool to below 55°C before premixing Phase C and adding to the blend.

Allow to cool to below 25°C before adding SeraShine® EM 807 and mixing until uniform. Add fragrance and mix.

Adjust pH as required.

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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