



Moisturising Sun Protection Cream (SUN-2)

This smooth sun cream formulation leaves the skin feeling soft and supple whilst providing essential protection from the sun's rays. **SeraSoft® SW 70-A** melts onto the skin to provide excellent skin feel whilst offering SPF boosting properties. **SeraSense® SFPTM** reduces tackiness and improves spreadability, as does **SeraSense® SF CM5** which also gently evaporates to leave less residue. A combination of **Vida-Care SP-6**, **Vida-Care SP-7** and **Vida-Care SP-1** has the potential to offer protection equivalent to an SPF of 15.

Raw Material/INCI Name	% w/w	Trade name/Supplier	Function
Aqua (Water)	To 100	-	Vehicle
Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.12	Vida-Care FD20/KCC Basildon	Thickener
Disodium EDTA	0.05	Various	Chelating Agent
Butylene Glycol	3.00	Various	Humectant
Glyceryl Stearate (and) PEG-100 Stearate	2.50	Arlacel 165/Croda	O/W Emulsifier
Cetyl Alcohol	2.00	Various	Bodifying Fat
C18-36 Acid Glycol Ester	2.00	Syncrowax ERLC/Croda	Emulsion Stabiliser
PVP/Hexadecane Copolymer	0.50	Unimer U-151/Protec Ingredia (Induchem AG)	Aids Water Repellency
C12-15 Alkyl Benzoate	6.00	Crodamol AB/Croda	Emollient
Octocrylene	0.75	Vida-Care SP-6/KCC Basildon	UVB Absorber
Butyl Methoxydibenzoylmethane	3.00	Vida-Care SP-7/KCC Basildon	UVA Absorber
Ethylhexyl Methoxycinnamate	2.50	Vida-Care SP-1/KCC Basildon	UVB Absorber
Isopropyl Myristate	4.00	Crodamol IPM/Croda	Emollient
Stearyl Dimethicone (and) Octadecene	2.00	SeraSoft® SW 70-A/KCC Beauty	Skin Feel/SPF Booster
Phenyl Trimethicone	1.00	SeraSense® SFPTM/KCC Beauty	Skin Feel
Cyclopentasiloxane	2.00	SeraSense® SF CM5/KCC Beauty	Aids Spreading
Sodium Hydroxide	0.03	Sodium Hydroxide (30% Solution)/Various	pH Adjuster
Parfum (Fragrance)	0.30	Andrias Perf 266059/Fragrance Oils Int.	Fragrance
Methylisothiazolinone (and) Phenoxyethanol	0.60	Neolone PE/Dow Chemical	Preservative

Typical Properties

Appearance:	Viscous, white cream
Viscosity @ 25°C:	-
pH @ 25°C:	-

Method

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

Slowly sprinkle the Vida-Care FD20 into the water and leave for 10 minutes until the powder has fully wetted and dropped into the solution.

Apply mechanical stirring and mix for a further 10 minutes to ensure full hydration of the Vida-Care FD20.

Add the Butylene Glycol and stir until homogenous. Begin heating to 70°C.

In a premix vessel, mix the Arlacel, Cetyl Alcohol, Syncrowax and Unimer. Heat to 70°C and stir until uniform.

In a separate vessel, add the Crodamol AB and Vida-Care SP-'s, heat to 70°C, and stir until homogenous. Once uniform, add the materials from the pre-mix vessel.

In another premix vessel, add the Crodamol IPM and SeraSoft® SW 70-A, heat until molten and stir until homogenous. Add to the oil phase.

Slowly add the oil phase to the water phase under homogenisation.

Premix the SeraSense® SF PTM and CM5 and add to the emulsion whilst still homogenising, but ensure the temperature stays below 70°C.

Add the NaOH solution and homogenise until white and uniform.

Change to a mechanical stirrer and begin to cool. Once below 40°C, add the fragrance and preservative.

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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