

Face and Body Sun Protective Sunscreen Lotion Est. SPF25

Ref: PS1-51

This Est.SPF25 Sunscreen formulation is based on an oil and water emulsion. **Biosil Basics I-90** is the key emulsifier for this luxurious system to provide excellent spreadability and skin feel resulting in uniform SPF protection. Additional UVA protection is achieved by incorporating **Helionori**, a natural marine derived ingredient into the formulation. This ingredient is a genuine UVA bio-protector based on the efficacy of special marine compounds.

INCI	Trade Name	Supplier	% W/W
Phase A			
Cetyl PEG/PPG-10/1 Dimethicone	Biosil Basics I-90	Biosil	2.50
Ceresin	Botaniwax CE-112	Botanigenix	1.50
Octocrylene	Eusolex OCR	EMD Chemicals	10.00
Avobensone	Eusolex 9020	EMD Chemicals	3.00
Homosalate	Neo Heliopane HMS	Symrise	10.00
C12-15 Alkyl Benzoate	Finsolv TN	Innospec Active Chemicals	6.00
Phase B			
D.I.Water			60.50
Glycerin	Glycerin 99.9%	JEEN	3.00
Sodium Chloride	Sodium Chloride	PCI	0.40
Disodium EDTA	Protachem NA-2-P	Protameen	0.10
Porphyra Umbilicalis	Helionori	Biosil	3.00
Phase C			
Methyl Paraben, Ethyl Paraben, N-Butyl Paraben, Propyl Paraben, Isobutyl Paraben, Phenoxyethanol	Phenonip	Clariant	1.00

Procedure: Mix ingredients of Phase B together (no heat required). Combine ingredients of Phase A together. Heat to 75C and mix until it is uniform. Add Phase B to Phase A very slowly under mixing and cool it down until 30-35C. Add Phase C with mixing. Homogenize until desired viscosity is reached (5 min @ 4000RPM).

Parameters: Viscosity 28400 CPS S#6 @ 5RPM

Stability: Acceptable 8 weeks stability at 4°C, RT 45°C, and 3 F/T cycles

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