

Photoprotection Day Cream

Ref: PS3-189

This elegant formulation is designed as a day cream to provide an efficient protection against the damaging effects of sun exposure. **SUN'ALG** offers free radical scavenger potential that helps to prevent signs of premature aging and protect the skin against damaging effects of sun exposure. **ENTADINE** is a skincare active based on Entada Phaseoloides bark/seed extract. It reduces sun-induced skin damage by boosting skin natural defenses and immunity to prevent sunburn consequences and skin premature aging. **Biosil EFA** provides essential fatty acids.

INCI	Trade Name	Supplier	% W/W
Phase A			
D.I. Water	D.I. Water		Q.S.
Disodium EDTA	Protachem NA-2-P	Protameen	0.10
Glycerin	Glycerin 99.5%	Protameen	4.00
Hydroxyethylcellulose	Natrosol 250 HHR CS	Ashland	0.30
Propylene Glycol	Propylene Glycol		3.00
Phase B			
Glyceryl Monostearate	Jeechem GMS-450	JEEN	0.75
Polyglyceryl-6 Isostearate	Plurol Isostearique	Gattefosse	0.40
PEG-100 Stearate	Protamate 4400-DPS	Protameen	0.40
Cetearyl Alcohol	Lipocol SC	Lipo	0.40
Cetyl Alcohol	Cetyl Alcohol NF	Protameen	0.40
Polysorbate 80	Tween 80	Croda	0.40
Cyclopentasiloxane and Cyclohexasiloxane	Dow Corning 345 Fluid	Dow Corning	2.00
Dimethicone	JEESILC PDS-200	JEEN	2.00
Phase C			
Pongamia glabra seed oil and Dunaliella salina extract and Haematococcus pluvialis extract	Sun'Alg	Biosil	2.00
Entada Phaseoloides bark/seed extract	Entadine	Biosil	2.50
Linoleic Acid (and) Linolenic Acid (and) Tocopherol	Biosil EFA	Biosil	1.00
Sodium Acrylate/Sodium Acryloyldimethyl Taurate Copolymer, Isohexadecane, Polysorbate 80	Simulgel EG	Seppic	2.00
Phenoxyethanol (and) Ethylhexylglycerin	Euxyl 9010	Schulke	1.00
Fragrance	Aloe Herbal PSI00778	Premier	0.10

Procedure: Add water to the main beaker. Premix Natrosol with Glycerin and Propylene Glycol; add it to the water with mixing. Heat to 70°C and mix until no lumps. Add Disodium EDTA with mixing. Combine ingredients of Phase B together. Mix and heat to 60-70°C until it is clear. Add Phase B into Phase A with mixing. Stop heating. Cool Batch to 40°C. Add ingredients of Phase C one by one with mixing.

Parameters: pH 5.7, Viscosity 36.270 CPS S#5/6 RPM

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

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