



Formulation Reference: FM00116/D

Daily sun cream to protect and moisturise skin. Contains **Texique HE10** as a co-emulsifier, stabiliser and rheology modifier.

Phase	INCI Ingredients	Function	% w/w	Trade Name
A	Aqua	Solvent	Up to 100 %	Deionised Water
	Tetrasodium EDTA	Chelating agent	0.05	Edeta BX Powder ¹
B	Glycerin ²	Humectant / Moisturising	5.00	Pricerine 9091 ²
	Citric acid	pH adjuster	0.08	Citric acid monohydrate ³
C	Aluminum Starch Octenylsuccinate	Sofening / texturizing agent	1.00	Agenoflo OS 9051 ⁴
D	Tribehenin	Wax / Viscosity agent	2.50	Syncrowax HRC ²
	Polyglyceryl-3 Methylglucose Distearate	Emulsifier	1.50	Tego Care 450 ⁵
	Butyrospermum Parkii (Shea) Butter	Butter / Skin softening / moisturising	0.50	Cetiol SB 45 ¹
	Butyl Methoxydibenzoylmethane	UVA sunscreen	3.75	Parsol 1789 ⁶
	Diethylhexyl Butamido Triazone	UVB sunscreen	0.50	Uvasorb HEB ⁷
	VP/Eicosene Copolymer	Film former / water resistancy	2.00	Antaron V-220F ⁸
	Octocrylene	UVB sunscreen	2.25	Q-SORB PC 3039 ⁹
	C12-15 Alkyl Benzoate	Solvent	13.00	C12-15 Alkyl Benzoate ⁹
	Vitis Vinifera (Grape) Seed Oil	Emollient / skin softening	0.50	Naissance 210 Grapeseed ¹⁰
	Polysorbate 20	Emulsifier / surfactant	0.30	Tego SML 20 MB ⁵
E	Phenoxyethanol	Preservative	0.60	Phenoxyethanol RCH ⁸
	Potassium Cetyl Phosphate	Emulsifier	0.024	Amphisol K ⁶
F	Phenyl Trimethicone (and) Dimethiconol	Film former / skin feel	0.67	Dowasil CB-1556 Fluid ¹¹



	Methylene Bis-Benzotriazolyl Tetramethylbutylphenol (and) Aqua (and) Decyl Glucoside (and) Propylene Glycol (and) Xanthan Gum	Broad spectrum sunscreen	2.25	Tinosorb M ¹
G	Sodium acrylate/sodium acryloyldimethyl taurate copolymer (and) C13-15 alkane (and) coco-glucoside	Emulsifier / stabiliser	1.33	Texique HE10 ¹²
H	Alcohol denat.	Cooling agent / preservative booster	5.00	Denatured Ethanol ¹³
I	Parfum	Fragrance	0.50	Coconut Honey 16217/22 ¹⁴

* Formulated to European regulations for sunscreen levels

Suppliers: ¹ BASF | ² Croda | ³ Univar | ⁴ Azelis | ⁵ Evonik | ⁶ DSM | ⁷ 3V Sigma | ⁸ Ashland | ⁹ OQEMA | ¹⁰ Naissance | ¹¹ Dow | ¹² **Scott Bader** | ¹³ Ineos | ¹⁴ The Soap Kitchen |

Preparation procedure

1. Weigh out Phase A and mix until completely dissolved.
2. Add Phase B and mix until dissolved and uniform. Heat to 75°C.
3. At temperature slowly add Phase C whilst homogenising gently. Mix until dispersed. Re-heat to 80°C.
4. Weigh out Phase D and heat to 80°C. At temperature add Phase E and mix until dispersed.
5. Add Oil phase to Water phase whilst homogenising. Homogenise until smooth and uniform.
6. Whilst homogenising gently add Phase F and mix until dispersed.
7. Cool to below 40°C with slow mixing.
8. At below 40°C add Phase G and stir to distribute. Homogenise gently to achieve smooth thick emulsion.
9. Add Phase H slowly in stages with mixing. Mix until uniform. Add Phase I and mix until uniform.
10. Adjust to pH 5.50 – 6.50.

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