

Self-Tanning Cream (o/w) with Sunprotection, SPF 6-11

Phase A	Weight %	For 240 g / 8.5 oz
Triglyceride	8 %	9.2 g / 0.7 oz
Meadowfoam Seed Oil	4 %	9.6 g / 0.43 oz
Sorbitan Stearate	2 %	4.8 g / 0.17 oz
Polysorbate 60	3 %	7.2 g / 0.26 oz
Cetyl Alcohol	2 %	4.8 g / 0.17 oz
OM-Cinnamate	4 %	9.6 g / 0.34 oz
Phase B		
Hot Distilled Water	63.2 %	151 g / 5.4 oz
Xanthan Gum	0.5 %	1.2 g / 1/2 tsp
Phase C		
Sorbitol or Glycerin	3 %	7.2 g / 0.26 oz
Phase D		
Distilled Water	4 %	9.6 g / 0.43 oz
Erythulose	3.5 %	8.4 g / 0.3 oz
Dihydroxyacetone	1.5 %	3.6 g / 0.13 oz
Phase E		
Paraben-DU	1 %	2.4 g / 0.1 oz
Potassium Sorbate	0.3 %	0.7 g / 1/4 tsp
Fragrance	0.3 %	0.7 g / 16 drops

Method

Give phase A into a clean, disinfected heat resistant glass beaker and heat it up to (maximum 150oF/66oC). Stir until the mixture is homogenous. Prepare phase B in separate glass beaker by sprinkling the xanthan gum into the water and stirring with high speed. Add phase B to phase A. Mix thoroughly and let it cool down to 100oF/40oC. Add then phase C to phase A/B and stir. Prepare phase D and add it to phase A/B/C. Stir again. Finally, add phase E and stir again. Adjust the pH to 4.5/5 using citric acid.

Properties

This self-tanning cream provides also some UV protection (mainly against UVB).