

**Sprayable Sunscreen Lotion for Pump Sprays (estimated SPF 28–34)**

<b>Phase A</b>	<b>Weight %</b>	<b>For 100 g / 3.6 oz</b>
Triglyceride (emollient)	6 %	6 g / 0.2 oz / 1 ¼ tsp
Octocrylene (sunscreen)	4 %	4 g / 0.1 oz / 1 tsp
OM–Cinnamate (sunscreen)	7.5 %	7.5 g / 0.3 oz / ½ Tbsp
Cyclo–Dimethicone	1.5 %	1.5 g / 0.05 oz / ¼ tsp
GelMaker EMU	0.2 %	0.2 g / 5 drops
Vitamin E Acetate (anti–oxidant)	1 %	1 g / 22 drops
<b>Phase B</b>		
Distilled Water (diluent)	63 %	63 g / 2.3 oz / ¼ cup 1 tsp
ETDA (stabilizer)	0.2 %	0.2 g / 1/16 tsp
Glycerin (humectant)	4 %	4 g / 0.1 oz / 1/2 tsp
PEG–7 Glyceryl Cocoate (emulsifier)	5 %	5g / 0.2 oz / 1 1/4 tsp
Titanium Dioxide Micronized (sunscreen)	4 %	4 g / 0.1 oz / 2 Tbsp
Aloe Vera 10x Concentrated	1 %	1 g / 22 drops
<b>Phase C</b>		
Allantoin (anti–inflammatory)	0.3 %	0.3 g / 1/8 tsp
Vitamin A Palmitate (anti–oxidant)	1 %	1 g / 22 drops
Paraben–DU (preservative)	1 %	1 g / 22 drops
Fragrance	0.3 %	0.3 g / 3 drops

**Method**

This lotion can be processed at room temperature (no heating required). Give phase A into a clean and disinfected glass beaker and stir until the ingredients are well mixed. Prepare phase B in separate glass beaker. Add the EDTA until dissolved in the water, then add all other ingredients in order, stir after each ingredient. The titanium dioxide needs patience until “wet”. Add phase A to phase B and stir thoroughly until uniform. Before adding phase C dissolve the allantoin in 1 tsp of distilled water, then add to phase A/B. Add the remaining ingredients of phase C to phase A/B and mix again well. If the sunscreen is too thick, GelMaker EMU can be reduced or omitted. However if this sprayable sunscreen should become a thicker lotion then GelMaker EMU can be increased (e.g 2–3%)

**Properties**

This sunscreen lotion provides UVA and UVB protection.