



  
**SHARON**  
LABORATORIES

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# Sun Screen Cream, SPF 45

Earth climate changes and global warming turn sunscreen products to become common and even part of the daily skin care regime.

Aiming for increased UV protection, a higher SPF value is required. Combining different UV filters & absorbers in sun care formulas is a must, which consequently increases the oily phase dosage in end formula.

Using non-polar preservatives in a heavily oily formula, generates a risk of contamination, as preservatives of low polarity tend to migrate into the oily phase, leaving the aqueous phase unprotected.

SharoSENSE™ Plus 184, an innovative **polar** preservative system, brings uncompromised antimicrobial efficacy, at dramatically lower level of use of 0.7%.

## Formula # SH.SC.909.03.SSP184

Ingredient / INCI Name	Function	% w/w
<b>Phase A</b>		
Aqua		Qs 100
EDTA	Chelating agent	0.10
<b>SharoSENSE™ Plus 184</b> (Maltol, Didecylidimonium Chloride)	<b>Preservative System</b>	0.70
Xanthan gum	Thickener	0.50
<b>Phase B</b>		
Cetearyl Alcohol (and) Cetearyl Glucoside	O/W emulsifier	3.00
Caprylic/Capric Triglyceride	Skin emollient	5.00
Cetearyl Alcohol (and) Ceteareth-20	O/W emulsifier	3.00
Ethylhexyl methoxycinnamate	UVB absorber	7.50
Octyl Salicylate	SFP booster	5.00
Benzophenone-3	UVA & UVB absorber	6.00
Avobenzone	UV absorber	1.60
Homosalate	UVB absorber	10.00
Titanium Dioxide	UV absorber	3.00
PVP (and) VP/Eicosene Copolymer	Film former, Water resistance	3.00
Tocopheryl acetate	Emollient	1.10

## Processing instructions:

Heat water to 45-50<sup>o</sup> C.

Add Phase A ingredients at order listed, while stirring. Make sure ingredient is fully dissolved before adding the next one.

Heat Phase B to 50-60<sup>o</sup> C while stirring until melted and unified.

Homogenize Phase A & Phase B at approx. 55<sup>o</sup> C.

