

# Replenishing Clear Sun Stick

A clear sun stick with a predicted SPF of 30. This easy-to-use stick format has excellent payoff and spreadability. Developed with a unique multi-functional polymer that allows the formulation of clear sticks, this formula contains a photo-stabilizing antioxidant to protect the skin during and after sun exposure.

## Mixing instruction and process

Prepare phase A and heat to 85 °C to obtain a clear, homogeneous liquid.

Cool to 70 °C and add phase B one by one in this order by homogenizing with moderate stirring between each addition. Then add phase C and homogenize. Pour into the sticks at around 70 °C.

Phase	Raw Material	INCI NAME	% w/w
A	Versastique™ Low Melt SQ 5T	Squalane, Butyl Stearate, Isostearyl Alcohol, Hydrogenated Styrene/Butadiene Copolymer, Dibutyl Ethylhexanoyl Glutamide, Dibutyl Lauroyl Glutamide, Pentaerythrityl Tetra-di-t-butyl Hydroxyhydrocinnamate	71.40
B	Squalane, Butyl Stearate, Isostearyl Alcohol, Hydrogenated Styrene/Butadiene Copolymer	Octocrylene	10.00
B	Octocrylene	Ethylhexyl Salicylate	5.00
B	Ethylhexyl Salicylate	Butyl Methoxydibenzoylmethane	5.00
B	Butyl Methoxydibenzoylmethane	Ethylhexyl Methoxycinnamate	4.00
C	Ethylhexyl Methoxycinnamate	Ethyl Oleate	2.00
C	Ethyl Oleate	Haematococcus Pluvialis Extract, Caprylic / Capric Triglyceride, Tocopherol	0.0014
C	Haematococcus Pluvialis Extract, Caprylic / Capric Triglyceride, Tocopherol	Bis-Ethylhexyl Hydroxydimethoxy Benzylmalonate	1.00
C	Bis-Ethylhexyl Hydroxydimethoxy Benzylmalonate	Bisabolol	0.50
C	Bisabolol	Dihydroxy Methylchromonyl Palmitate	0.10
C	Dihydroxy Methylchromonyl Palmitate	Caprylyl Glyceryl Ether	0.50
D	Caprylyl Glyceryl Ether	Parfum	0.50

## Physicochemical Index

Appearance: Clear Light Orange Stick

Odor: Almond

Stability: 3 months @ 4, RT, 40 °C

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