



# Reference Formula

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## Baby sunscreen (Amphisol K) (SPF 20.72★★★)

EP-SC-LWO-0013A V1

### FORMULA

Phase	Ingredient (Trade Name)	Ingredient (INCI Name)	% By Weight	Function
W1	D.I Water	D.I Water	Up to 100%	Water
	Xanthan Gum	Xanthan Gum	0.20%	Thickener
	<b>CELLOSIZETM Polymer PCG-10<sup>1</sup></b>	<b>Hydroxyethyl cellulose</b>	<b>0.20%</b>	Thickener
	<b>Carbowax SENTRY PEG-400<sup>1</sup></b>	<b>Polyethylene Glycol</b>	<b>4.00%</b>	Moisturizer
	<b>Amphisol K<sup>2</sup></b>	<b>Potassium Cetyl Phosphate</b>	<b>3.50%</b>	Emulsifier
	EDTA-2Na	Edetate Disodium	0.20%	Chelating Agent
O1	<b>Parsol ZX<sup>2</sup></b>	<b>Zinc Oxide, Triethoxycaprylylsilane</b>	<b>5.00%</b>	UV Filter
	<b>Parsol TX<sup>2</sup></b>	<b>Titanium Dioxide, Silica, Dimethicone</b>	<b>5.00%</b>	UV Filter
	Innospec: Sunsol <sup>TM</sup> BOS	Butyloctyl Salicylate	6.00%	Dispersant /SPF booster
	<b>ES-5300 Formulation Aid<sup>1</sup></b>	<b>Lauryl PEG-10 Tris(trimethylsiloxy)silyl ethyl Dimethicone</b>	<b>1.00%</b>	Dispersant
	<b>ERCAREL TCC V<sup>14</sup></b>	<b>Caprylic/Capric triglyceride</b>	<b>3.00%</b>	Dispersant
O2	<b>ERCAMULS LF 65 V/FD<sup>14</sup></b>	<b>Glyceryl Stearate (and) PEG-100 Stearate</b>	<b>3.00%</b>	Co-Emulsifier
	<b>FATTY ALCOHOL 1618-01<sup>14</sup></b>	<b>Cetearyl Alcohol</b>	<b>1.00%</b>	Co-Emulsifier
	<b>Paracera<sup>TM</sup> P<sup>11</sup></b>	<b>Paraffin</b>	<b>1.00%</b>	Thickener
	Sensolene <sup>®</sup> Light ET	Ethyl Oliviate, Olea Europaea (Olive) Leaf Extract	2.00%	Emollient
	<b>2502 Cosmetic Fluid<sup>1</sup></b>	<b>Cetyl Dimethicone</b>	<b>2.00%</b>	SPF booster

Recommendations contained, herein this Reference Formula, are advisory only.

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A	Diam Oléoactif®	Cocos Nucifera Oil (and) Oak Root Extract	1.00%	Active
	<b>3901 Liquid Satin Blend</b> <sup>1</sup>	<b>Dimethicone (and) Dimethicone/ Vinyl Dimethicone Crosspolymer</b>	<b>1.00%</b>	Skin feel modifiers
	<b>dl-<math>\alpha</math>-Tocopheryl Acetate</b> <sup>2</sup> <b>Jana</b> <sup>16</sup>	<b>Tocopheryl Acetate Perfume</b>	<b>0.50%</b> <b>0.10%</b>	Anti-oxidant Fragrance
	NaOH(30%)	Sodium Hydroxide	Q.S.	pH Adjuster
	Preservative	Preservative	Q.S.	Preservative

Suppliers: 1. Dow Chemical; 2. DSM; 11. Paramelt; 14. ErcaWilmar; 16. Lothar Streeck

## PROCEDURE

1. Prepare Phase W1 and O1 separately.
2. Add Phase O2 to O1, and heat Phase W1, O1+O2 to 70-75°C.
3. Add Phase W1 to O1+O2 under stirring, and keep temperature 85°C.
4. Finally, add Phase A to the main tank after cooling.
5. Adjust pH value up to 7.0.

## SPECIFICATION

APPEARANCE	: White cream
VISCOSITY	: approx. 4,330 $\pm$ 10% (43.3%) (RVDV-E, RV6, 100 rpm, 3 min, 25°C)

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