



# Reference Formula

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## 海洋友善化學防曬 (SPF 67.64★★★★★) EP-SC-COW-0102A\_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</b>	<b>Hydroxyethyl cellulose</b>	<b>0.10%</b>	Thickener
	<b>Polymer PCG-10<sup>1</sup></b>			
	Glycerine	Glycerine	5.00%	Moisturizer
	EDTA-2Na	Edetate Disodium	0.05%	Chelating Agent
O1	<b>Amphisol K<sup>2</sup></b>	<b>Potassium Cetyl Phosphate</b>	<b>3.00%</b>	Emulsifier
	Olivem VS Feel	Cetearyl Alcohol, Cetyl Palmitate, Sorbitan Palmitate, Sorbitan Oleate	3.00%	Co-emulsifier
	<b>FATTY ALCOHOL 1618-01<sup>14</sup></b>	<b>Cetyl Stearyl Alcohol</b>	<b>1.50%</b>	Thickener
	<b>ERCAREL AB<sup>14</sup></b>	<b>C12-C15 Alkyl Benzoate</b>	<b>4.00%</b>	Solvent
	<b>Parsol 1789<sup>2</sup></b>	<b>Butyl Methoxydibenzoylmethane</b>	<b>3.00%</b>	UV Filter
	<b>PARSOL® Shield<sup>2</sup></b>	<b>Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine</b>	<b>3.00%</b>	UV Filter / Solvent
	<b>Parsol EHS<sup>2</sup></b>	<b>Ethylhexyl Salicylate</b>	<b>5.00%</b>	UV Filter / Solvent
	<b>Parsol HMS<sup>2</sup></b>	<b>Homosalate</b>	<b>5.00%</b>	UV Filter / Solvent
	Innospec: Sunsol <sup>TM</sup> BOS	Butyloctyl Salicylate	4.00%	Dispersant /SPF booster
	<b>2503 Cosmetic Wax<sup>1</sup></b>	<b>Stearyl Dimethicone (and) Octadecene</b>	<b>1.50%</b>	Emollient
	<b>PMX-200 Silicone Fluid 100 cSt<sup>1</sup></b>	<b>Dimethicone</b>	<b>1.00%</b>	Emollient

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

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Phase	Ingredient (Trade Name)	Ingredient (INCI Name)	% By Weight	Function
W2	D.I Water	D.I Water	2.00%	Water
	<b>PARSOL® Max<sup>2</sup></b>	<b>Methylene Bis-Benzotriazolyl Tetramethylbutylpheno l</b>	<b>2.00%</b>	UV Filter
A	<b>VALVANCE™ Touch 210<sup>2</sup></b>	<b>Silica</b>	<b>1.00%</b>	Skin feel modifiers
	<b>Five Star Deluxe<sup>16</sup></b>	<b>Perfume</b>	<b>0.10%</b>	Fragrance
	Preservative	Preservative	Q.S.	Preservative

Suppliers: 1. Dow Chemical; 2. DSM; 3. HallStar; 14. ErcaWilmar; 16. Lothar Streeck

## PROCEDURE

1. Prepare Phase W1 and O1 separately, and heat to 70-75 °C.
2. Add Phase W1 to O1 under stirring until homogenizing.
3. Add Phase W2 and Phase A into the main tank after cooling (<40 °C).
4. Mix well.

## SPECIFICATION

APPEARANCE	: Pale yellow cream
pH VALUE	: approx. 5.30 ± 10%
VISCOSITY	: approx. 17,000 ± 10% (51.0%) (RVDV-E, RV5, 12 rpm, 3 min, 25°C)

*The information given in this publication is based on our current knowledge and experience and may be used at your discretion and risk. It does not relieve you from carrying out your own precautions and tests. We do not assume any liability in connection with your product or its use. You must comply with all applicable laws and regulations and observe all third party right.*

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