



## Let's Have Sun – W/Si+O

This sun care lotion is just amazing. Nobody would complain to apply sun care products if all SPF protection emulsions would have such feel. **Dow Corning® 3901 Liquid Satin Blend**, an innovative and revolutionary lightly cross-linked high MW polymer in a volatile dimethicone carrier fluid, is providing a smooth, satin and slippery feel. **Dow Corning® ES-5300 Formulation Aid** is the emulsifier of choice for water-dispersed emulsion where the external phase is so hybrid, made of various organics and silicones. **Sunspheres PGL** significantly boosts SPF for any given active level and across entire UVA and UVB regions. As a consequence it supports a reduced level of sunscreen actives. **Epitex™ 66** provides outstanding water resistance, improved skin feel and offers easy processing in a variety of formulations.

 **UNIVAR®**  
PERSONAL CARE

	Trade name	INCI name	Supplier	%
A	1 Dow Corning® ES-5300 Formulation AID	Lauryl PEG-10 Tris(Trimethylsiloxy)silylethyl Dimethicone	Dow Corning / Univar*	3.0
	2 Dow Corning® FZ-3196	Caprylyl Methicone	Dow Corning / Univar*	3.0
	3 Purotan® IHD	Isohexadecane	Lanxess / Univar*	13.0
	4 Dow Corning® 3901 Liquid Satin Blend	Dimethicone/Vinyl Dimethicone Crosspolymer (and) Dimethicone	Dow Corning / Univar*	5.0
	5 Ercarel DOE	Dicaprylyl Ether	Erca / Univar*	3.0
	6 Bentone 38V	Disteardimonium Hectorite	Elementis Specialities	1.0
B	9 Vida-Care SP-5	Ethylhexyl Salicylate	Lambson / Univar*	4.5
	10 Vida-Care SP-6	Octocrylene	Lambson / Univar*	3.5
	11 Vida-Care SP-7	Butyl Methoxydibenzoylmethane	Lambson / Univar*	2.0
C	12	Water (Aqua)	Univar*	42.1
	13 Industrial Salt Unsieved	Sodium Chloride	Akzo Nobel / Univar*	0.5
	14	Butylene Glycol	Univar*	7.0
	15 Kemidant L	DMDM Hydantoin	Akema / Univar*	0.2
D	16 SunSpheres™ PGL SPF Booster	Styrene/Acrylate Copolymer	Dow Personal Care / Univar*	10.0
	17 Epitex™ 66 Polymer	Acrylates Copolymer	Dow Personal Care / Univar*	2.2

### Procedure (Hot Process)

- Mix phase A ingredients until homogeneous (Ultra Turrax could be used to better homogenize Bentone 38V).
- Premix phase B and heat to 90°C until homogeneous.
- Cool down phase B at room temperature and then add it to phase A while stirring.
- Add slowly phase C with stirring (1300 rpm) and then homogenize (1 min/100 g).
- Add phase D with gentle stirring until homogeneous.

### Stability

Stable at least 2 months at room temperature, 40°C and 50°C (still ongoing).

### Comments

- Viscosity (spindle 4; 6 rpm; 1 min) = 28,800 cPs (86.4 %)
- Fluid emulsion (white appearance) associated to an amazing feel and inspired from “Exquisite” (ref 191214.CC(U)n1) formula issued by Univar Personal Care (Daringly Beautiful campaign – SIM1)

\* Please contact your regional Univar sales representative to ensure that mentioned products are distributed in your country.

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