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Broad Spectrum SPF 50 Sunscreen Cream with Low UV Actives

- High SPF 50 broad-spectrum sunscreen using organic UV filter
- Low concentration of UV filters (17%) reduces chance for skin irritation. The SPF value is boosted by Synoxy HSS.
- Ultra-comfortable sensory without sticky feeling and easy to spread on skin.
- Elegant cream-gel texture with anticipated water resistance performance.

Sensogel 200, as a multi-functional thickener, enables a flexible formulation approach due to stability under a broad range of pH (2-12) and a diminished amount of emulsifiers.

Sensogel 200: 3-in-1 stable and ready-to-use associative thickener that can work as an emulsifier, a stabilizer, and thickener for a wide range of **pH (2 – 12)** in O/W sunscreen preparation with a reduced amount of emulsifiers to provide ultra-comfortable sensory and a range of **textures** from sprays to lotions, creams and butters. Also able to **thicken** 99% **Glycerin** with 1% Sensogel 200, making a water-soluble, petroleum-like viscous paste with a non-tacky sensory. It is designed for skin care, sun care and hair conditioners.

SPF 50 (one subject, FDA protocol), critical wavelength 378 nm

Phase	INCI Name, (Trade Name)	Wt%	
A	Distilled Water	66.15	 Process: Heat Phase B at above 85 C to a homogenous solution. Mix phase A by a propeller at 1000 rpm, RT for about 15 minutes to ensure all SG-200 is dissolved. Then heat phase B to 85 C Add B into A while mixing by a propeller at 1300 rpm 80~85 C. After adding, continue mixing for 20 minutes. Add the lost water, and cool down to 30 C.
	Disodium EDTA	0.05	
	Glycerine	3.00	
В	Sensogel 200	2.00	
	Cetearyl Alcohol (and) Coco Glucoside (Montanov	2.00	
	82)		
	Polyethylene (Performalene 400)	2.00	
	Avobenzone	2.00	
	Homosalate	10.0	
	Octinoxate	5.00	
	Trimethoxybenzylidene Pentanedione (Synoxy HSS)	2.00	
	C ₁₂₋₁₅ Alkyl Benzoate	5.00	
	Preservative	0.80	
Feature	Viscosity (cP) @ 5 rpm	135,000	pH 5.89

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