



# US20112 | WATER-RESISTANT INORGANIC SUNSCREEN

## In vitro SPF 30+



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Water resistant

Formulated with mineral sunscreens only

<b>A</b>	Aqua/ Water Glycerin Sodium Hydroxide Solution 25% (w/w)	Up to 100% 3.0% 0.2%
<b>B</b>	<b>EMOSMART™ L19</b> Isocetyl Stearoyl Stearate Isodecyl Neopentanoate Polyhydroxystearic acid	<b>8.0%</b> 9.0% 8.0% 1.0%
<b>C</b>	Zinc Oxide Titanium Dioxide (and) Alumina (and) Stearic Acid	10.0% 10.0%
<b>D</b>	<b>SENSANOV™ WR</b>	<b>2.0%</b>
<b>E</b>	<b>SEPINOV™ EMT 10</b>	<b>0.25%</b>
<b>F</b>	Phenoxyethanol and Ethylhexylglycerin	1.0%

With WESOURCE



**White Smooth Cream / Packaging: Jar**

**pH: 7.5 / VISCOSITIES: 1M at RT: 135,000 mPa.s**  
Brookfield LV96-6 /

**Recovery at RT (after 1M at 45°C): 154,000 mPa.s**  
Brookfield LV96-6.

**STABILITY: 3M at RT, 45°C, 3 cycles -5°C/+40°C.**

### FORMULATION ADVICES: Laboratory scale - 300 g

Combine phase B ingredients and heat it up to 40°C to melt polyhydroxystearic acid. Then add phase C ingredients one by one into B while homogenizing at 5000 rpm. Once phase C is added, homogenize at high shear if needed for more minutes. When phase (B+C) is properly dispersed and uniformed, stop homogenizing and then add phase D and heat to 85°C. Heat aqueous phase A to 85°C. Heat up oily phase (B+C+D) up to 85°C, then add phase E. Combine oily and aqueous phases together and homogenize at 4,000 rpm for 4 minutes. Cool down the batch with low shear mixing to 60°C and add phase F, then cool down the batch to RT.

**This inorganic sunscreen protects your skin from the sun and resists to the water.**

**Go for a swim in piece!**

*Broad spectrum protection against UVA/UVB with In-Vitro SPF30+*

**SENSANOV™ WR** provides a **light skin feel** followed by the sensation of a **matt velvety veil** which slowly envelops the skin. Its unique chemistry that creates this protective film offers **water-resistant** properties ideal for the development of sun care formulation.

(C20-22 Alkyl Phosphate and C20-22 Alcohols)

Emulsionnant anionique phosphaté polyvalent efficace à faible dose (1 à 3%). Apporte une impression de légèreté suivie de la sensation d'un voile velouté mat qui se dépose sur la peau. Il laisse la peau souple avec une sensation de confort prolongé.

**SEPINOV™ EMT 10** thickens and stabilizes the emulsion while providing **glide-on, freshness and satiny skin feel.**

(Hydroxyethyl Acrylate / Sodium Acryloyldimethyl Taurate Copolymer)

Pre-neutralized powder polymeric thickener on a wide pH range (3-12). It provides also **excellent oil stabilizing property** even in presence of a high percentage of oily phase. It gives a "satin" touch, glide-on, and freshness.

**EMOSMART™ L19** shows an excellent compatibility with all types of oils and **helps to disperse minerals (TiO2/ZnO)**. It gives a **fresh and vanishing texture** with a matt afterfeel.

(C15-19 Alkane)

EMOSMART™ L19 is a high-purity, non polar and readily biodegradable emollient. Inert and stable, it can be used in all types of applications, even in extreme conditions.

**ADDITIONAL INGREDIENTS:** Isocetyl Stearoyl Stearate: DUB SSIC (STEARINERIE DUBOIS) / Isodecyl Neopentanoate: DUB VCI10 (STEARINERIE DUBOIS) / Polyhydroxystearic Acid: Dispersun DSP-OL100 (Innospec Active Chemicals LLC) / Zinc Oxide: Zano® 10 (Ultra Chemical Inc.) / Titanium Dioxide (and) Alumina (and) Stearic Acid: Eusolex® T-S (EMD Chemicals) / Phenoxyethanol and Ethylhexylglycerin: Euxyl PE 9010 (Schulke Inc)

More informations available on [seppic.com](http://seppic.com)