

Simple cream-gels have been formulated to illustrate :  
**1° The thickening performances (in presence of electrolytes or not)**  
**2° The variety of available textures thanks to SEPPIC Polymers range**  
**For an easier comparison, cream-gels have all been adjusted to 60000 +/- 10000 mPa.s**

**Formulas**

	EU07096B SEPINOV™ EMT10	EU07096C SEPIPLUS™ 400	EU07096R SEPIPLUS™ S	EU07096E SIMULGEL™ SMS 88	EU07096D SIMULGEL™ INS100	EU07096H SIMULGEL™ NS	EU07096G SIMULGEL™ EG	EU07096A SEPIGEL™ 305
<b>A POLYMER</b>	<b>1.00 %</b>	<b>1.30 %</b>	<b>2.40 %</b>	<b>2.60 %</b>	<b>1.90 %</b>	<b>2.50 %</b>	<b>2.80 %</b>	<b>2.00 %</b>
<b>LANOL™ 99</b>	5,00 %	5,00 %	5,00 %	5,00 %	5,00 %	5,00 %	5,00 %	5,00 %
<b>B Aqua/Water</b>	Up to 100 %	Up to 100 %	Up to 100 %	Up to 100 %	Up to 100 %	Up to 100 %	Up to 100 %	Up to 100 %
Methylisothiazolinone & Ethylhexylglycerin	0,05 %	0,05 %	0,05 %	0,05 %	0,05 %	0,05 %	0,05 %	0,05 %

**Procedure (Trimix – Rotor Stator – 7 kg)**

Weigh and add water and preservative into the main tank. Homogenize for 5'. Weigh oil and polymer. Disperse polymer into the oil then add this phase to the water. Emulsify for 10' at 3000rpm. Adjust the pH if necessary, homogenize for 5'.

**Characteristics**

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pH	6.6 (ini. 5.0)	5.8 (spont.)	6.0 (spont.)	5.9	6.2 (spont.)	6.0 (spont.)	6.2 (ini. 6.6)	6.6 (ini. 7.0)
Viscosity at D7 at RT BROOKFIELD LV4 sp.6	58,900	58,500	57,300	57,000	51,300	72,100	57,000	59,500
Stability	All the cream gels have a stability >M1 at RT and 45°C and are stable after shaking test 3h speed 300							
Dose 60,000 mPa.s with 0.6% NaCl	3.5%	4.4%	3.4%	7.4%	7.2%	8.0%	6.8%	7.0%
Dose 60,000 mPa.s with 2% NaCl	5.0%	6.0%	4.4%	--	--	--	--	--
Specificity of touch	Satin	Silicon Glide-on	Ultra- Comfort	Substantial	Fresh Melting	Fresh Melting	Light	Substantial

EU07096 – SEPPIC – 1005

**Raw materials from SEPPIC**
**SEPINOV™ EMT 10**

**Hydroxyethylacrylate / Sodium Acryloyldimethyltaurate Copolymer**  
 Powder polymer « 2 in 1 », thickening in a wide pH range (3 to 10), ready for use, with an excellent emulsifying and stabilizing power at low concentration. The chemical structure of Sepinov™ EMT10 guarantees a tremendous compatibility with specific actives. Besides, its supple texture ensures an easy pick up.

**SEPIPLUS™ 400**

**Polyacrylate-13 & Polyisobutene & Polysorbate 20**  
 Thickening agent in liquid form very easy to use (no predispersion or neutralization). Sepiplus™ 400 gives an improved electrolyte resistance over a wide pH range (3 to 11).

**SEPIPLUS™ S**

**Hydroxyethylacrylate / Sodium Acryloyldimethyltaurate Copolymer & Polyisobutene & PEG 7 Trimethylolpropane Coconut Ether**  
 This compound is in the form of liquid. Concentrated polymer, thickening in a wide pH range (3-10), effective in particular with high levels of electrolytes. Used as co-emulsifier or stabilizer, it has a rich and unctuous feeling with a 1% concentration, and provides an unrivalled softness to emulsions for an absolute comfort prolonged in time.

**SIMULGEL™ SMS 88**

**Sodium Acrylate/Acryloyldimethyltaurate/Dimethylacrylamide Crosspolymer & Isohexadecane & Polysorbate 60**

This compound is in the form of liquid, and is ready-for-use. It is a thickening agent on a wide range of pH(3 to 10), and has a tremendous stabilizing power. It provides to the formulas an enriched and comfortable sense of touch, which is ideal for a "Cocoon" concept.

**SIMULGEL™ INS 100**

**Hydroxyethylacrylate / Sodium Acryloyldimethyltaurate Copolymer & Isohexadecane & Polysorbate 60**

This compound is in the form of liquid, and is ready-for-use. It is a thickening agent which stabilizes all types of oily phases. It can be used in a wide range of pH (3 to 11), and for the development of all types of consistencies: sprays, ultra-fluid to thick ones. It gives to the formulas a fresh and melting texture.

**SIMULGEL™ NS**

**Hydroxyethylacrylate / Sodium Acryloyldimethyltaurate Copolymer & Squalane & Polysorbate 60**

Thickening and emulsifying agent, Simulgel™ NS is very easy to use in liquid form (neither pre-dispersion nor neutralization). It provides a sensation of freshness followed by a melting effect on the skin (velvety softness feeling). Simulgel™ NS perfectly stabilizes emulsions made at high temperatures.

**SIMULGEL™ EG**

**Sodium Acrylate / Sodium Acryloyldimethyltaurate Copolymer & Isohexadecane & Polysorbate 80**

Thickening and emulsifying agent in the form of liquid, this polymer is ready and easy for use (neither predispersion nor neutralization). Simulgel™ EG perfectly stabilizes emulsions at high temperatures, and allows to obtain rich, silky and easy-to-apply formulas.

**SEPIGEL™ 305**

**Polyacrylamide & C13-14 Isoparaffin & Laureth-7**

A thickening and stabilising agent with an easy-to-use liquid presentation. It allows to stabilise every type of fatty phases in a wide range of pH (3 to 11). Formulas obtained have a smooth consistency, and guarantee a good pick-up. Sensory profile: softness and suppleness.

**LANOL™ 99**

**Glycol Palmitate**

Texturing agent which is very easy to emulsify. It provides a soft and light texture and easy-to-spread properties.

**Other raw materials...**

- Methylisothiazolinone & Ethylhexylglycerin : **EUXYL K220 (SCHULKE)**