

The 3 in 1 Polymer for pharmacy



- **SEPINEO™ P 600 Description**

- **SEPINEO™ P 600: Thickening power**

- **SEPINEO™ P 600: Emulsifying power**

- **SEPINEO™ P 600: Stabilizing power**

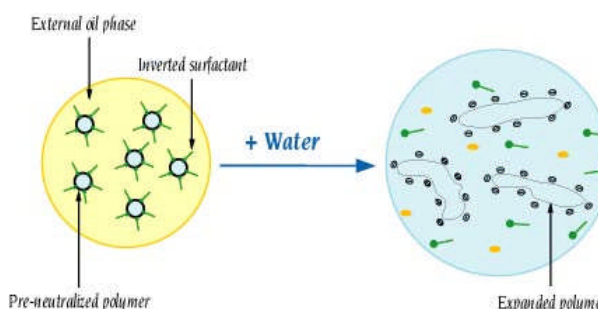
- **SEPINEO™ P 600: Formulation advices**

SEPINEO™ P 600 belongs to the SEPINEO™ new range specifically dedicated to your topical drug developments.

SEPINEO™ P 600 description

The thickening- emulsifying polymer for topical applications.

SEPINEO™ P 600, HSD polymer
“HYDRO SWELLING DROPLETS”



In presence of water, SEPINEO™ P 600 reverses and the polymer network deploys instantly, forming a perfectly stable gel in a few seconds.

SEPINEO™ P 600 benefits:

Ready to use fluid form

Very easy to handle at room temperature: No neutralisation, No rehydratation.

Thickens over a large pH range : pH 2 to 12

Stabilizes and thickens O/W emulsions

Gel-Cream texture: Emulsifies all oily phases at Room temperature

Good skin tolerance

Regulatory status: US-DMF n° 21266

Already used in a drug with NDA (New Drug Application)

SEPINEO™ P 600: thickening power

The SEPINEO™ P 600 thickens water from low concentrations. Increase of viscosity as a function of polymer concentration is linear and SEPINEO™ P 600 is effective over a very wide pH range. SEPINEO™ P 600 is able to thicken solvent-rich media such as ethanol, acetone, glycerin, glycols... Thus, it enables to formulate

SEPINEO™ P 600: Emulsifying power

SEPINEO™ P 600, an Hydro Swelling Droplet (HSD) polymer in an invert emulsion, is able to emulsify and stabilize many oily phases.

- ⇒ **WITHOUT addition of a conventional emulsifier**
- ⇒ **WITHOUT HLB calculation**
- ⇒ **WITHOUT neutralization (pre-neutralized polymers)**

Different oily phases can be emulsified successfully, whatever their nature: polar and non polar oils, vegetable oils, silicone oils, esters.

The **gel-creams** obtained are stable and have a perfectly uniform appearance. The “gel-cream” concept is a novel product form, very pleasant for the touch and spread on the skin.

SEPINEO™ P 600 : Emulsion stabilizing power

In addition to these thickening/emulsifying properties, SEPINEO™ P 600 stabilizes conventional emulsions. In such cases, the SEPINEO™ P 600 concentration can be lower, from **0.5% to 2.0%**, and must be determined according to the nature of the other ingredients of the formula.

SEPINEO™ P 600 : formulation advices

In emulsion: SEPINEO™ P 600 performs well when added at the end of high temperature emulsification ($\cong 70-75\text{ }^{\circ}\text{C}$). It can also be added at the beginning of the process in the oil or aqueous phase as it is perfectly stable at high temperatures.

In gel-cream: SEPINEO™ P 600 can be introduced either in the oily phase or in the aqueous phase: its performance in terms of texture and stability is similar whatever the process. However, the stirring step needs **less energy** when SEPINEO™ P 600 is introduced in the oily phase.

In hydroglycolic/ hydroalcoholic/ acetone gel: It is advisable to prepare the aqueous gel first and then add the solvent gradually, while stirring.

SEPINEO™ P 600 doses of use

- gel application => thickening power: up to 5%
- cream application => stabilizing power: 0,5% to 2%
- Gel-Cream => emulsifying power: up to 5%

Nota

The analytical specifications warranted are only those mentioned on the certificate of analysis supplied with each delivery of the product. Except as set forth above, SEPPIC* makes no warranties, whether express, implied or statutory, as to the product which is the subject of this document. Without limiting the generality of the foregoing, SEPPIC* makes no warranty of merchantability of the product or of the fitness of the product for any particular purpose. Buyer assumes all risk and liability resulting from the use or sale of the product, whether singly or in combination with other goods. The information set forth herein is furnished free of charge and is based on technical data that SEPPIC* believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside SEPPIC*'s control, SEPPIC* makes no warranties, express or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

* SEPPIC being: **SEPPIC S.A.** Tel. : +33 (0)1 42 91 40 00 Fax : +33 (0)1 42 91 41 41 and, depending on the country :

SEPPIC UK Ltd
Tel. : +44 208 577 8800

SEPPIC Inc.
Tel. : +1 973 882 5597

SEPPIC Asia Singapore
Tel. : +65 6278 6711

SEPPIC Italia Srl
Tel. : +39 02 38009110

SEPPIC Brasil
Tel. : +55 11 3242 3911

SEPPIC Colombia SAS
Tel. : +571 702 44 48

HEAD OFFICE
75, quai d'Orsay
75007 Paris/ FRANCE

SEPPIC S.A. France
Tel. : +33 (0)1 42 91 40 00

SEPPIC Japan Office
Tel : +81 3 6414 6725

SEPPIC Gmbh
Tel. : +49 (0) 2203-89830-20

SEPPIC Dubai Office
Tel : +971 (4) 2395565

SEPPIC Mumbai
Tel : +91 22 42726464

SEPPIC China
Tel. : +86 (21) 64 66 01 49