



# SIMALINE<sup>™</sup> L80

Liquid emulsifier for Geltrap<sup>™</sup> "Gel-in-oil"

and traditional W/O emulsion

SIMALINE M L80 Sorbitan oleate / PEG-30 Dipolyhydroxystearate	
CAS number	1338-43-8/70142-34-6
Regulatory status	European Pharmacopeia-compliant raw materials
Physical state	Liquid
Applications	Marketing Authorization / Medical Device / Dermo-cosmetic
Administration routes	Topical / Transdermal (skin) / Mucosal (vaginal, rectal)
Dosage forms	Geltrap™, W/O emulsion

# An innovative dosage form with strong technical performances

A Geltrap<sup>™</sup> is the result of the enveloping of a gel-textured aqueous phase in a lipidic film, stabilized by a polymeric W/O emulsifier

### Internal Aqueous phase > 80% Gel = Water - Polar solvents - Sepineo<sup>™</sup> Polymer

40%

Sepineo<sup>™</sup> P 600 (liquid) or Sepineo <sup>™</sup> D.E.R.M (powder) or Sepineo<sup>™</sup> PHD 100 (powder) **IID** registered - DMF DMF DMF (ongoing)

50% **PEG-400** 

40% **Franscutol®** P **Glycerin** 80% **Propylene** glycol

With a nice sensorial profile !

# External fatty phase 5 - 20% Oils - W/O surfactants

PEG-30 Dipolyhydroxystearate Ph.Eur. **Simaline**<sup>™</sup> (polymeric surfactant) **L80** Sorbitan Oleate Ph.Eur., USP-NF

A robust polymeric surfactant, opening the possibility of emulsification in all kind of settings

- → From room-temperature to hot process
- From low shear to high shear →

- **Geltrap**<sup>™</sup> dosage form
- A combination of **IID-listed & Ph.Eur.** excipients
- A vehicle for polar solvents, even at high concentrations
  - **Unique texture**, for an optimal patient compliance

**Added benefits** Moisturizing Emollient Water resistance

Easy and versatile formulation process

# Improved aesthetics and sensorial profile, even in solvent-rich formulations

Building a dosage form to solubilize and deliver a specific API into the skin can lead you to use excipients negatively impacting the touch of your final product. With the Geltrap<sup>™</sup> technology, you can formulate these same excipients and still ensure a positive patient experience.



#### Fresh

->

Non-greasy, non-sticky Even with 40% Glycerin

 $\rightarrow$ Comfort, cushion effect



Easy pick-up Easy skin spreading

**Emollient vehicle** 

In vitro testing

Useful property for vaginal-rectal

applications, to prevent the early wash-out of the drug by body fluids

A Geltrap with 10% of oil shows the

same non-drying properties as an O/W or W/O emulsion with 20% oil



Cream-like aspect White, shinv. smooth surface

# Added benefits for medicated skincare





Clinical testing: 20 volunteers with dry skin

Nota:

# Manufacturing

## **Prepare the aqueous** phase - Gel

Add SEPINEO<sup>™</sup> polymer to water a)



#### b) Add solvents to the gel

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Water-resistance

In vitro testing

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