

# Gilugel® EUG

## Rheological Additive for Cosmetic Formulations

INCI Name: Octyldodecanol [and] Aluminum Magnesium Hydroxide Stearate

### General

The quality of an emulsion is primarily determined by the composition of the oil phase. The oils and esters used, particularly for W/O emulsions, should be chosen for their suitability to the application area. For light emulsions it is recommended to use light oils and esters with good spreadability. Emulsions are normally stabilised with waxes, which tend to have an unpleasant, sticky skin feel. Stabilising emulsions with Gilugel® avoids this problem.

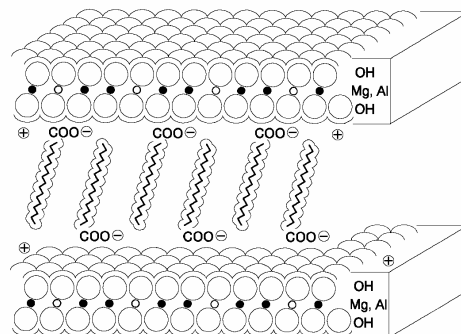
Gilugel® EUG acts in the oil phase as an emulsion stabiliser and thickener. Application levels between 5 and 15% are recommended, depending on the viscosity required.

### What Gilugel® EUG is

Gilugel® OS is a gel based on the inorganic pharmaceutical active, Hydrotalcite, gelled in Octyldodecanol

### Composition:

Aluminium-Magnesium-Hydroxide-Stearate:	17 - 23 %
Al	0,9 - 1,2 %
Mg	2,4 - 3,2 %
Water	max. 2 %
Density	0,85 - 0,90 %
Heavy Metals (as Pb)	max. 30 ppm
Octyldodecanol	78 - 80 %
Solubility	insoluble in water



Raw Materials/ Trade name	INCI name	w/w [%]
<b>A.</b>		
Gilugel EUG (1)	Octyldodecanol (and) Aluminium Magnesium Hydroxidestearate	8,00
Crodamol GTCC (4)	Capr./Caprylic Glyceri- de	6,00
Arlacel 989 (2)	POE Glycol (7) Hydro- genated Castor Oil	0,50
Babassu Oil (4)		4,00
Tegin ISO (8)	Glyceryl Stearate	3,00
Vit-E-Acetat	Tocopherylacetat	0,50
<b>B.</b>		
Demineralized Wa- ter		78,00
Preservatives		q.s.
Perfume		q.s.

## W/O - Emulsion C 17

Gilugel®EUG acts in this formulation as a stabiliser and, rheological additive

### Procedure

Heat phase A and phase B to 80°C and afterwards emulsify phase B with phase A under homogenisation. Cool gently to room temperature.

### Suppliers

- 1) BK Giulini
- 2) ICI
- 4) Croda
- 6) Finetex. Inc
- 7) Haarmann & Reimer
- 8) Goldschmidt

### Packaging

25 kg pails with lids

### Storage and Shelf life

The material is stable for 3 years when stored at room temperature in the original, unopened containers.

### Oil Separation

Gilugel® is filled into pails at ca. 80°C. On cooling, the gel contracts and small amounts of oil are forced out of the gel structure. This does not negatively influence the product quality, but should be taken into account when using the material.

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