

Gilugel® CAO

Rheological Additive for Cosmetic Formulations

INCI Name: Castor (Ricinus Communis) Oil [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.

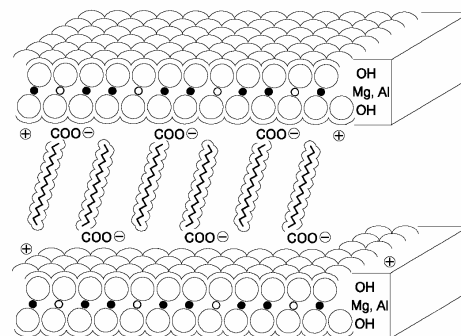
Gilugel® CAO acts in the oil phase as an emulsion stabiliser and thickener. Application levels between 5 and 15% are recommended, depending on the viscosity required.

What Gilugel® CAO is

Gilugel® CAO is a gel based on the inorganic pharmaceutical active, Hydrotalcite, gelled in castor oil.

Composition

Aluminium-Magnesium-Hydroxide-Stearate:	17 - 23 %
Al	0,9 - 1,2 %
Mg	2,4 - 3,2 %
Water	max. 2 %
Density	0,95 - 1,05 %
Heavy Metals (as Pb)	max. 30 ppm
Castor Oil	78 - 80 %
Solubility	insoluble in water



Raw Materials/ Trade name	INCI name	w/w [%]
Gilugel® CAO (1)	Castor (Ricinus Oil Communis) (and) Aluminum/Magne- sium Hydroxide Stearate	22,00
Castor Oil	Castor (Ricinus Communis) Oil	30,00
Acetulan (9)	Cetyl Acetate (and) Acetylated Lanolin Alcohol	5,00
Cobee 92 (10)	Hydrogenated Coconut Oil	6,50
Microwax HP 67	Microcrystalline Wax	4,50
Microwax 1847	Microcrystalline Wax	7,80
Carnauba Wax	Carnauba	3,80
Candelilla Wax	Candelilla Wax	3,80
Wickenol 155 (11)	2-Ethyl-Hexyl Palmitate	2,00
Amerchol L 101 (9)	Mineral Oil (and) Lanolin Alcohol	2,50
Pigments		12,10

Lip Stick L 01

Gilugel® improves the emulsion stability and prevents pigment sedimentation at higher temperatures.

Procedure

Mill pigments in the Castor oil, if appropriate. Combine and heat oils and waxes to 80°C. Add **Gilugel®**, under stirring, until the gel is homogeneously dispersed. Finally add the Castor oil pigment dispersion and stir slowly to de-aerate. Add perfume and fill into moulds.

Suppliers

- 1) BK Giulini
- 9) Amerchol
- 10) PVO–International
- 11) Alzo International

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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