

Gilugel® MIG

Rheological Additive for Cosmetic Formulations

INCI Name: Caprylic/Capric Triglyceride[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.

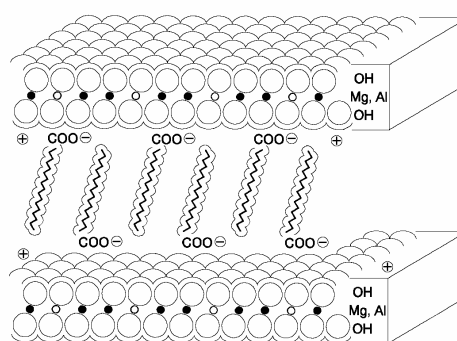
Gilugel® MIG acts in the oil phase, as an emulsion stabiliser and thickener. Application levels between 5 and 15% are recommended, depending on the viscosity required.

What Gilugel® MIG is

Gilugel® MIG is a gel based on the inorganic pharmaceutical active, Hydrotalcite, gelled in caprylic/capric triglycerides.

Composition

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



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.



Raw Materials / Trade name	INCI name	w/w [%]
A. Gilugel® MIG (1)	Caprylic/Capric Glycerides (and) Aluminum Magnesium Hydroxide Stearate	5,00
Cithrol PR (2)	Polyglyceryl-3 Polyricinoleate	4,00
Crill 6 (2)	Sorbitan Isostearate	1,00
Crodamol OP (2)	Octyl Palmitate	10,00
SR Wheat Germ Oil	Wheatgerm Oil	1,00
Antioxidans Roche	Tocoph. Citric Acid and Ascor. Palmi	0,02
DC-345-Fluid (3)	Cyclomethicone	1,00
Paraffinum subliquidum	Mineral Oil	5,00
B. Demin. Water		69,00
Glycerine	Glycerol	3,00
Magnesiumsulfat x 7 H ₂ O	Magnesium Sulfate	0,68
C. Preservative		0,10
Perfume		0,20

Raw Materials/ Trade name	INCI name	w/w [%]
A. Gilugel® MIG (1)	Caprylic/Capric Glycerides (and) Aluminum Magnesium Hydroxide Stearate	5,00
Cithrol PR (4)	Polyglyceryl-3 Polyricinoleate	4,00
Crill 6 (4)	Sorbitan Isostearate	1,00
Crodamol OS (4)	Octyl Stearate	11,00
SR Wheat Germ Oil	Wheatgerm Oil	5,00
Antioxidans Roche	Tocoph. Citric Acid and Ascor. Palmi	0,02
B. Demineralized Water		70,00
Glycerine	Glycerol	3,00
Magnesiumsulfate x 7 H ₂ O	Magnesium Sulfate	0,68
C. Preservatives		0,10
Perfume		0,20

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.

W/O - Emulsion C 06

Gilugel® MIG acts as a stabiliser and viscosity regulator in this formulation.

Procedure

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

Suppliers

- 1) BK Giulini
- 2) Corda
- 3) Dow Corning

Wheat Germ Oil Cream C 07

Gilugel® MIG acts as a stabiliser and rheological additive in this formulation .

Procedure

Heat phase A and phase B, separately, to approx. 75°C. Add phase B to phase A. Continue stirring to approx. 60°C, then homogenise to approx. 35°C. Add phase C at approx. 30°C.

Suppliers

- 1) BK Giulini
- 4) Croda

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