Cremer Care
Inspired by nature.

MIGLYOL® 840

INCI: Propylene Glycol Dicaprylate/Dicaprate

- Excellent light emollient
- Excellent light and dry emollient
- Alternative to IPM

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1. Description:

MIGLYOL® 840 is a propylene glycol diester of saturated plant fatty acids with chain lengths of C_8 and C_{10}. Therefore it has excellent emollient properties.

2. Chemical and Physical Properties:

Tests	Values	Units
Clarity and opalescence	complies	
Coloration	complies	
Acid value	max. 0.1	mg KOH/g
Iodine value	max. 0.5	mg I/100 mg
Saponification value	320 – 335	mg KOH/g
Peroxide value	max. 1.0	mequi O/kg
Hydroxyl value	max. 5	mg KOH/g
Colour #	max. 50	APHA
Water	max. 0.1	%
Refractive index	1.440 – 1.442	n^{20}_{D}
Density at 20 °C	0.91 – 0.93	g/cm³
Viscosity at 20 °C	9 – 12	mPa·s
Alkaline reactive substances	max. 0.15	ml 0.01N HCl/2.00g
Heavy metals	max. 10	mg/kg
Total ash	max. 0.05	%
Unsaponifiable matter	max. 0.3	%
Caproic acid ($C_{6:0}$)	max. 2.0	%
Caprylic acid ($C_{8:0}$)	65 – 80.0	%
Capric acid ($C_{10:0}$)	20.0 – 35.0	%
Lauric acid ($C_{12:0}$)	max. 2	%
Myristic acid ($C_{14:0}$)	max. 1.0	%

 # For better differentiation the colour is expressed as APHA. The limit of max. 100 is far below the limit of the Y3 reference solution as indicated in the Ph.Eur. 2.2.2, method I.

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3. Application:

MIGLYOL® 840 is a clear, virtually colorless liquids of neutral odor.

MIGLYOL® 840 is very pure because of its carefully selected raw materials. As a result of tightly controlled manufacturing process, it contains very few microorganisms and is free of additives such as antioxidants, solvents and catalyst residues.

MIGLYOL® 840 has the following advantages in comparison to natural oils:

High stability against oxidation
Liquid at 0 °C
Very good solubility characteristics

MIGLYOL® 840 is soluble at 20 °C in the following solvents:

Hexane, toluene, diethyl ether, ethyl acetate, acetone, isopropanol, and ethanol 96%.

MIGLYOL® 840 is miscible in all ratios with paraffin hydrocarbons and natural oils.

Cosmetic Functions:

Excellent spreadability on the skin and good skin absorption.
Does not inhibit skin-respiration.
Excellent penetration-promoting, emollient and skin-smoothing properties.
Very good solubility characteristics.

<u>Skin care cosmetics</u>	
Creams and lotions:	Non-greasy emollient oil components with high spreadability.
Compared with petrolatum and mineral oil:	They are skin-permeable, do not obstruct natural skin respiration.
Skin, face and baby oils:	Non-oxidizing, penetration-enhancing lipid bases.
Massage oils:	Low-viscosity oil bases with excellent spreadability.
Masks:	Emollient skin care additives.
<u>Decorative Cosmetic</u>	
Make-Up, sticks, mascara:	Dispersing oil component, compatible with pigments.
Makeup remover:	Disperses pigments and acts as a solubilizer.
<u>Cleansing cosmetics</u>	
Two-phase foam baths:	Fat component, readily miscible with natural oils and surfactants.

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Sunscreens	
O/W sunscreen creams:	Oil component, compatible with organic and inorganic filter agents.
W/O sunscreen creams, sunscreen oils:	Water-resistant oil components, less greasy, do not obstruct skin respiration.

Thus MIGLYOL® 840 use is suggested for:

- Day creams
- Body lotions
- Sun protection products
- Foundations
- Lip sticks
- Baby care
- Wet wipe cleansing lotions

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4. Formulation Guide:

	Light Moisturizing W/O Lotion - for sensitive skin		**561**
Phase A			
	IMWITOR® 600[1]	Polyglyceryl-3 Polyricinoleate	3,00
	MIGLYOL® 818[1]	Caprylic/Capric/Linoleic Triglyceride	7,00
	MIGLYOL® 840[1]	Propylene Glycol Dicaprylate/Dicaprate	2,50
	MIGLYOL® 8810[1]	Butylene Glycol Dicaprylate/Dicaprate	17,00
	SOFTIGEN® 701[1]	Glyceryl Ricinoleate	1,50
	Olive Oil	Olea Europaea	2,50
	Bees Wax	Cera Alba	0,50
Phase B			
	CremerGLYC[1]	Glycerine	2,00
	Magnesium Sulfate $7H_2O$	Magnesium Sulfate	1,20
	Preservatives		q.s.
	Demin. Aqua	Aqua	ad 100,00
Phase C			
	Tocopherol		0,50
	Fragrance	Fragrance	q.s.

Procedure:

1. Heat Phase A and B separately to approx. 75-80 °C.
2. Add Phase A to Phase B with stirring. Homogenize.
3. Cool Phase A/B with gentle stirring to approx. 30 °C.
4. Add Phase C to the emulsion.

Supplier References:
[1]Cremer Care

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INCI: Propylene Glycol Dicaprylate/Dicaprate

- multitainer with 25 kg
- drum with 190 kg
- totes with 950 kg
- road tanker

- Store at ambient temperature
- Protect from light and moisture
- Shelf life 3 years

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