



# MIGLYOL® 810 N **EXCIPIENT**

## **TECHNICAL DATA SHEET**

Ph. Eur. / B.P. (current version): Triglycerides, Medium-Chain **USP** (current version):

**Medium-Chain Triglycerides** 

IOI OLEO GMBH

### DESCRIPTION

MIGLYOL<sup>®</sup> 810 N is a triglyceride ester of saturated caprylic and capric fatty acids and glycerol. Fatty acids and glycerol are derived from vegetable sources.

 $\rm MIGLYOL^{\otimes}$  810 N is a clear, virtually colourless liquid of neutral odour and taste. It is a very good solvent for drugs.

### APPLICATION

#### **Parenteral Products**

Tablets, dragees: Soft gelatine capsules:	Anti-sticking, polishing agents. Chemically neutral, low-viscosity carrier oil, absorption promoter.		
Drops:	Carrier, solvent, and absorption promoter.		
Suspensions, syrups:	Carrier and absorption promoter for antibiotics etc.		
Aerosol products:	Carrier and solvent (glycerol trinitrate etc.).		
Dietetic products & Neutraceuticals	Medium chain triglycerides (MCT) differ from natural fats (LCT). With regard to these essential properties: quick metabolism, not stored as body fat. Physiological caloric value = 8,2 kcal/g (34,3 kJ/g) compared with LCT = 9,2 kcal/g (38,5 kJ/g). Different absorption and metabolism properties: MCT is partially utilized if fat resorption disorders exist.		
Topical theraputics			
Psoriasis Treatment and Antiprucitics:	Readily absorbent, scale-detaching and keratin softening oil component, particularly in combination with Vitamin A.		
Ointments:	Non-oxidizing, absorption-promoting, non-occlusive oil component with excellent spreadability.		
Rectal products	Anti-nucleating and dispersing aid for active ingredients in Hard Fat (WITEPSOL®) suppositories.		



### CHEMICAL AND PHYSICAL PROPERTIES

Tests	Values	Typical values	Units	Methods
Acid value	max. 0.2	0.02	mg KOH/g	Ph. Eur. 2.5.1
Hydroxyl value	max. 10	3	mg KOH/g	Ph. Eur. 2.5.3
Water	max. 0.2	0.02	%	Ph.Eur. 2.5.32
Viscosity at 20 °C	25 - 33	30	mPa∙s	Ph. Eur. 2.2.9
Colour	max. 100	24	APHA	ISO 6271
Caprylic acid (C <sub>8:0</sub> )	50.0 - 80.0	70	%	Ph. Eur. 2.4.22
Capric acid (C <sub>10:0</sub> )	20.0 - 50.0	30	%	Ph. Eur. 2.4.22

Above mentioned tests are a selection of relevant parameters and do not represent the complete current sales specification.

### MIGLYOL<sup>®</sup> 810 N fully complies with the requirements of the current Ph. Eur. monograph "Triglycerides, Medium-Chain".

MIGLYOL<sup>®</sup> 810 N is **very pure because of its carefully selected raw materials**. As a result of tightly controlled manufacturing process microorganisms are practically absent because of very low levels of water, i.e. microbials cannot sustain.

MIGLYOL<sup>®</sup> 810 N is free from additives such as antioxidants, solvents and catalyst residues.

MIGLYOL® 810 N has the following advantages compared to edible oils:

- low in impurities (as a result of production according to EU GMP guidelines)
- high stability against oxidation

- liquid at 0°C

At low temperatures parts of the triglycerides may crystallize. This phenomenon is completely reversible and has no impact on the product's quality.

#### Solubility

MIGLYOL<sup>®</sup> 810 N is soluble at 20°C in the following solvents: Hexane, toluene, diethyl ether, ethyl acetate, acetone, isopropanol and ethanol 96%. MIGLYOL<sup>®</sup> 810 N is miscible in all ratios with natural oils. MIGLYOL<sup>®</sup> 810 N is not soluble in water and glycerol.



### ADDITIONAL INFORMATION

#### **Regulatory Information**

The fatty acids used for the production of MIGLYOL® 810 N complies with CFR 21, § 172.860 and is classified as GRAS. It has been assigned the type IV DMF no. 800.

### PACKAGING UNITS

180 kg steel drum with an inner laquer lining. 950 kg International Bulk Container (IBC).

#### The following packaging materials are recommended:

- High Density Polyethylene = HDPE
- Polytetrafluorethylene (PTFE)
- Polypropylene (PP)
- Metal (stainless steel)
- Glass

#### Material compatibility instructions and additional information

MIGLYOL<sup>®</sup> 810 N is a good solvent, like other low-viscosity hydrophilic ester oils. Some plastics, especially those containing plasticizers, tend to turn brittle or to expand.

**Polystyrene and Polyvinylchloride (PVC) are no suitable packaging materials**. Be careful when selecting resistant seal closure material (e.g. VITON<sup>®</sup> is recommended) and be careful of sufficient pull power because MIGLYOL<sup>®</sup> 810 N shows a high tendency to migrate.

#### HANDLING AND SHELF LIFE

If stored longterm in original tightly closed containers, dry, protected from light and moisture and below 25°C, the shelf life then is at least three years.

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