



IOI OLEOCHEMICAL

PERSONAL CARE

# TECHNICAL DATA SHEET

# MIGLYOL® GEL B MIGLYOL® GEL 840 B



- **CONSISTENCY REGULATORS**
- **NON-OILY, VELVETY SKIN FEEL**
- **HEAT STABLE**



## DESCRIPTION

**MIGLYOL® Gels** are heat-stable oleo gels based on emollients. Due to their high thermal stability, they are used as consistency regulators to maintain viscosity over a wide temperature range. They prevent bleeding in stick formulations. All grades are vegan, halal, kosher, available in RSPO MB quality and manufactured exclusively in Germany.

	MIGLYOL® Gel B	MIGLYOL® Gel 840 B
<b>Emollient</b>	Caprylic/Capric Triglyceride	Propylene Glycol Dicaprylate/Dicaprate
<b>Clay</b>	Stearalkonium Hectorite	Stearalkonium Hectorite
<b>INCI</b>	Caprylic/Capric Triglyceride, Stearalkonium Hectorite, Propylene Carbonate	Propylene Glycol Dicaprylate/Dicaprate, Stearalkonium Hectorite, Propylene Carbonate
<b>Color</b>	Rose-beige	Rose-beige

They are prepared by jellifying MIGLYOL® oils with inorganic gelling agents. They have a soft, pasty consistency similar to petrolatum. They are chemically neutral and oxidation-resistant. Rancidity problems do not occur because only saturated fatty acids are present.

## APPLICATION

**MIGLYOL® Gels** are heat-stable and do not melt, even at temperatures of 100°C. The preparation of stable W/O emulsions with various textures is possible using only a few ingredients. W/Os with MIGLYOL® Gel do not show phase separation even after short heating to 90°C. Complicated formulations can be simplified substantially.

They are very compatible with the skin because they do not inhibit the skin respiration. **MIGLYOL® Gels** can be spread easily. Skin becomes soft and velvety, without a greasy or oily after-feel.

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| <input checked="" type="checkbox"/> Skin Care | <input checked="" type="checkbox"/> Body Care  | <input checked="" type="checkbox"/> Sun Care  | <input checked="" type="checkbox"/> Color Cosmetics  |
| <input checked="" type="checkbox"/> Baby Care | <input checked="" type="checkbox"/> Hair Care  | <input checked="" type="checkbox"/> Bath Care | <input type="checkbox"/> Wet Wipes                   |
| <input type="checkbox"/> Self-Tanning         | <input checked="" type="checkbox"/> Beard Care | <input type="checkbox"/> Deodorants           | <input checked="" type="checkbox"/> Intimate Hygiene |

**MIGLYOL® Gels** are miscible with all oils, fats, waxes and W/O emulsifiers, soluble in ethyl alcohol, acetone and diethyl ether, whereby a solid residue of hectorite remains; insoluble in water.

## FORMULATION HINTS

- Recommended concentration of **MIGLYOL® Gels**: 1 – 40%
- Applicable for cold and hot processes
- Disperse MIGLYOL® Gels to the oil phase (high-speed agitators or stirring/homogenization)
- Recommended pH Level: pH 4.0 – 7.0



# FORMULATION GUIDE

## CREAM-TO-POWDER SHIMMER DUST NO. 830

MIGLYOL® Gel B maintains its homogeneity and facilitates the application. It is responsible for this soft and surprising texture. MIGLYOL® Coco 810 is a fast spreading emollient providing a silky & powdery skin feel. WITARIX® MCT C8 leads to a rich skin feel during, and to a smooth and silky skin feel after application. SOFTISAN® 100 controls the melting behavior (melting point of approx. 32°C). Unlike waxes, it is a triglyceride with a very pleasant skin feel when molten.

	Trade Name	INCI	%
<b>PHASE A</b>	<b>MIGLYOL® Gel B</b>	<b>Caprylic/Capric Triglyceride (and) Stearalkonium Hectorite (and) Propylene Carbonate</b>	<b>42.0</b>
<b>PHASE B</b>	<b>MIGLYOL® Coco 810</b>	<b>Coco-Caprylate/Caprates</b>	<b>7.0</b>
	<b>WITARIX® MCT C8</b>	<b>Tricaprylin</b>	<b>8.0</b>
	<b>SOFTISAN® 100</b>	<b>Hydrogenated Coco-Glycerides</b>	<b>4.0</b>
	<b>IMWITOR® 600</b>	<b>Polyglyceryl-3 Polyricinoleate</b>	<b>2.0</b>
	Cetiol® MM	Myristyl Myristate	4.0
	Tocopherol	Tocopherol	1.0
<b>PHASE C</b>	Water demin.	Aqua	4.0
<b>PHASE D</b>	Timiron® Splendid Red	Mica (and) Titanium Dioxide (and) Silica	3.0
	Timiron® Silk Red	Titanium Dioxide (and) Mica (and) Tin Oxide	3.0
	SanTalc 511	Talc	12.0
	Rice PO4 Natural	Distarch Phosphate	10.0

### PREPARATION:

1. Heat phase B to approx. 60°C.
2. Add phase C drop by drop to phase B und stirring and stir until an emulsion is formed.
3. Add phase A to phases B/C and homogenize (3 min @ 10.000 rpm).
4. Add phase D one by one and stir until a homogenous paste is obtained.

### SUPPLIERS:

**IOI Oleo: IMWITOR®, MIGLYOL®, SOFTISAN®, WITARIX**  
 BASF: Cetiol®  
 Merck: Timiron®  
 Sandream Impact: SanTalc  
 AGRANA: Rice PO4



**OH LÀ LÀ CHEEKY CREAM BLUSH NO. 838**

Oh là là? Oh là là! The Cheeky Cream Blush is everything you need for rosy cheeks. The cream-gel melts on your skin and turns into a mattifying cream that stays on your skin the whole day. MIGLYOL® Gel B does not only act as texturizer but also ensures the non-oily and velvety touch. The combination of the silky MIGLYOL® Coco 810, the rich MIGLYOL® 829 ECO that helps with dispersing the pigments and the sensory transforming WITARIX® MCT C8 ensures a balanced spreading cascade. The pasty emollient SOFTISAN® 378 gives not only a smooth skin feel, but also the desired texture. MIGLYOL® DO reduces the tackiness. Color and care is possible thanks to SOFTISAN® conditionHAIR that moisturizes your dry cheek area and improves the skin barrier. Buildable color - take a small amount of the Cheeky Cream Blush and apply it to the apples of your cheek. If wished repeat until the desired intensity is reached.

	Trade Name	INCI	%
<b>PHASE A</b>	MIGLYOL® Coco 810	Coco-Caprylate/Caprato	6.0
	MIGLYOL® 829 ECO	Caprylic/Capric/Succinic Triglyceride	2.0
	WITARIX® MCT C8	Tricaprylin	2.0
	SOFTISAN® conditionHAIR	PCA Glyceryl Oleate	1.0
	SOFTISAN® 378	Caprylic/Capric/Myristic/Stearic Triglyceride	2.0
	MIGLYOL® DO	Decyl Oleate	2.0
	MIGLYOL® Gel B	Caprylic/Capric Triglyceride (and) Stearalkonium Hectorite (and) Propylene Carbonate	30.0
	Castor Oil	Ricinus Communis (Castor) Seed Oil	2.0
	Tocopherol	Tocopherol	1.0
<b>PHASE B</b>	Sapogel Q	Glycerin (and) Aqua (and) Quillaja Saponaria Wood Extract (and) Saponaria Officinalis (Soapwort) Extract	20.0
<b>PHASE C</b>	Titanium Dioxide MT-100TV	Titanium Dioxide	5.0
	SanTalc 511	Talc	15.0
	Rice PO4 Natural	Distarch Phosphate	9.9
<b>PHASE D</b>	Majestic Rhubarb MCM-RIO4	Mica (and) CI 77492	0.9
	SWD-4511 D&C Red 7 Ca Lake	Synthetic Wax (and) CI 15850	0.8
	Nivesse DF Extra 0797442	Parfum (EU)/ Fragrance (US)	0.4

**PREPARATION:**

- Mix all ingredients of phase A and heat to 50°C. Homogenize for a short time.
- Put phase B in a larger beaker. Add phase A slowly under high stirring until a gel is formed.
- Mix phase C and add little by little to the gel mixture of A/B.
- Add Phase D one by one and stir rapidly until a homogenous gel is obtained.

**SUPPLIERS:**

**IOI Oleo: MIGLYOL®, SOFTISAN®, WITARIX®**  
 Alchemy Ingredients: Sapogel  
 TAYCA Corporation: Titanium Dioxide Sandream  
 Impact: SanTalc, Majestic  
 Rhubarb  
 AGRANA: Rice PO4  
 SunChemical: D&C Red  
 Bell: Parfum



## HANDLING AND SHELF LIFE

The shelf life for MIGLYOL® Gels is at least thirty-six months if the product is stored below 25°C in a dry place in original, tightly closed containers, protected from light and moisture.

## PACKAGING UNITS

MIGLYOL® Gels: Bucket with 25 kg, 450 kg on CP2 or euro pallet

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