



IOI OLEOCHEMICAL

PERSONAL CARE

TECHNICAL DATA SHEET

MIGLYOL[®] 8810 ECO

INCI: Butylene Glycol Dicaprylate/Dicaprate



WATER-LIGHT EMOLLIENT FOR BETTER FORMULAS

Fast-spreading, natural highly polar emollient with non-oily light skin-feel allowing better performances for feel-good boosting formulas



DESCRIPTION

MIGLYOL® 8810 ECO is a **fast-spreading** 100% natural vegan emollient in liquid form, produced exclusively in Germany. It saves more than 40% CO₂ equivalents/MT* compared to MIGLYOL® 8810.

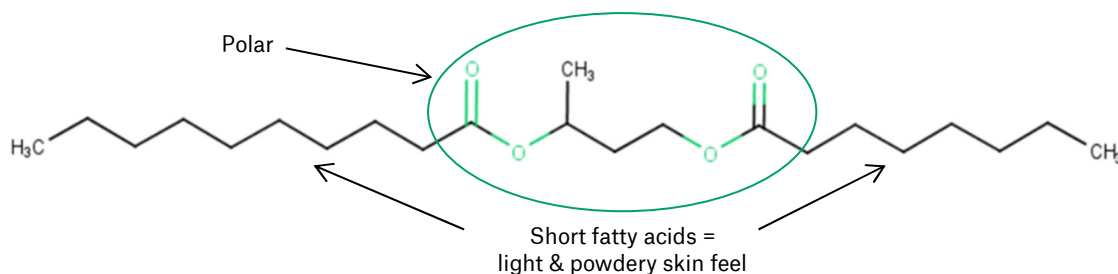
Due to its high polarity, MIGLYOL® 8810 ECO is an **excellent solvent** for lipophilic chemical **UV filters**, contributing to **better SPF retention** and leading to **skin moisturization**. It also contributes to **pigment wetting** and dispersion, enabling the incorporation of large amounts of powders. This makes it one of the most popular emollients for sun care and BB creams throughout the world.

It is a glycol ester based on natural 1,3-Butanediol and caprylic/capric fatty acids from **renewable sources** and has a **NOI of 1 according** to ISO 16128. MIGLYOL® 8810 ECO is a light yellow, almost colorless, clear, low-viscosity oil with a characteristic odor. It is a saturated, non-oxidizing emollient. It is **readily biodegradable** and non-toxic to aquatic organisms.

APPLICATION

MIGLYOL® 8810 ECO combines its **water-lightness** with a smooth, **non-oily** and lubricating skin feel with a short playtime. Perfect for formulas that absorb quickly! After absorption, MIGLYOL® 8810 ECO shows dry, velvety, powdery, silky and **non-sticky**/non-waxy sensorial aspects. This characteristic sensorial touch can be explained with the low molecular weight and the short fatty acids of the molecule.

This **safe-to-use** emollient is non-irritating to skin enables all kind of cosmetic formulas.



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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 checked="" type="checkbox"/> Wet Wipes |
| <input checked="" type="checkbox"/> Self-Tanning | <input checked="" type="checkbox"/> Beard Care | <input checked="" type="checkbox"/> Deodorants | <input checked="" type="checkbox"/> Intimate Hygiene |

MIGLYOL® 8810 ECO is miscible with all kind of oils, soluble in ethanol and virtually insoluble in water. The cloud point is approx. minus 10°C.

FORMULATION HINTS

- Recommended concentration of **MIGLYOL® 8810 ECO**: 1 – 30%
- Applicable for cold and hot process
- Add MIGLYOL® 8810 ECO to the pigment, oil or surfactant phase
- Recommended pH level: pH 4.5 – 7.5



FORMULATION GUIDE

BALM-TO-OIL MOISTURIZING CLEANSER NO. 811

The majority of skin cleansers are harsh; they remove all skin oils and leave your skin dry and tense. Our super mild but deep cleansing Balm-to-Oil Moisturizing Cleanser is different. Take some product out of the jar with your dry hands and massage it onto your face. Emulsify the product with lukewarm water. Now, let the magic happen. Rinse it off and enjoy clean and soft skin thanks to the great combination of our water-in-oil emulsifier IMWITOR® 600 and SOFTISAN® conditionHAIR, for that extra moisture boost. The selected emollients ensure a pleasant light and powdery sensory.

	Trade Name	INCI	%
PHASE A	WITARIX® MCT C8	Tricaprylin	12.0
	SOFTISAN® conditionHAIR	PCA Glyceryl Oleate	0.5
	MIGLYOL® T-C7	Triheptanoin	12.0
	MIGLYOL® 8810 ECO	Butylene Glycol Dicaprylate/Dicaprate	10.0
	SOFTIGEN® PURA	Olus Oil (EU)/Vegetable Oil (US)	10.0
	IMWITOR® 600	Polyglyceryl-3 Polyricinoleate	2.4
	8104 Beeswax White	Cera Alba	14.0
	6692 Rose Wax	Rosa Damascena Flower Cera	2.0
	Plantacare® 2000 UP	Decyl Glucoside	20.0
	Sunflower Oil	Helianthus Annuus (Sunflower) Seed Oil	16.6
	Tocopherol	Tocopherol	0.5

PREPARATION:

1. Mix and heat phase A to 75°C.
2. Cool down to 45°C with stirring and fill into molds.

SUPPLIER:

IOI Oleo GmbH: WITARIX®, SOFTISAN®, SOFTIGEN®, MIGLYOL®, IMWITOR®
 KahlWax: Beeswax, Rose Wax
 BASF: Plantacare®



NO MORE BLUES -BLUELIGHT DEFENCE CREAM NO. 809

IMWITOR® 372 P as the sole emulsifier offers stability combined with a light yet caring skin feel. The combination of MIGLYOL® 8810 ECO, MIGLYOL® 829 ECO and SOFTISAN® 378 creates astonishing light-, silky- and smoothness from beginning until complete absorption. SOFTISAN® conditionHAIR moisturizes the skin, while SOFTISAN® 649 locks the water deep in the epidermis and strengthens the skin barrier.

Trade Name	INCI	%
PHASE A		
IMWITOR® 372 P	Glyceryl Stearate Citrate	2.5
MIGLYOL® 8810 ECO	Butylene Glycol Dicaprylate/Dicaprate	10.0
MIGLYOL® 829 ECO	Caprylic/Capric/Succinic Triglyceride	1.0
SOFTISAN® 378	Caprylic/Capric/Myristic/Stearic Triglyceride	2.0
SOFTISAN® 649	Bis-Diglyceryl Polyacyladipate-2	1.0
SOFTISAN® conditionHAIR	PCA Glyceryl Oleate	1.0
Cosphaderm® T-70 NON	Tocopherol (and) Helianthus Annuus Seed	0.5
GMO ECO	Oil	
VegeLight Silk	C9-12 Alkane	2.3
Keltrol® CG-T	Xanthan Gum	0.2
PHASE B		
Water demin.	Aqua	73.9
Euxyl® PE 9010	Phenoxyethanol (and) Ethylhexylglycerin	1.0
Natrosol™ Plus 330 CS	Cetyl Hydroxyethylcellulose	0.5
Glycerin	Glycerin	3.0
PHASE C		
Panasome™ LUTEIN	Water (and) Butylene Glycol (and) Hydrogenated Lecithin (and) Ethanol (and) Xanthophylls (and) Safflower Oil (and) Potassium Phosphate (and) Dipotassium Phosphate (and) Phenoxyethanol	0.3
Dexpanthenol	Dexpanthenol	0.5
0809177 Blue Lotus ECO	Parfum (EU)/ Fragrance (US)	0.3

PREPARATION:

1. Heat phase A and B to 75°C.
2. Add phase B to phase A and homogenize (3 min @ 12.000 rpm).
3. Stir phase A/B until the temperature reaches 40°C and add phase C under stirring.
4. Adjust pH to pH 5.3 - 5.8 if necessary.

SUPPLIER:

IOI Oleo: IMWITOR®, MIGLYOL®, SOFTISAN®
 Cosphatec: Cosphaderm®
 Biosynthis: VegeLight
 CP Kelco: Keltrol®
 Ashland: Natrosol™
 Schülke & Mayr: euxyl®
 Kyowa Pharma: Panasome™
 Bell: Parfum



HANDLING AND SHELF LIFE

The shelf life for MIGLYOL® 8810 ECO is twelve 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

Multitainer with 25 kg, 600 kg on CP3 pallet
Drum with 190 kg, 760 kg on CP3 pallet

*The stated value for the Product Carbon Footprint (PCF) has been calculated according to the GHG (Greenhouse Gas) Protocol. This stated PCF is neither verified nor certified and is considered a mathematical calculation. The calculation includes upstream sourcing, raw materials, production and storage process. The calculated value of PCF is a calculated approach and is only given as an indicative carbon footprint to show the differences between MIGLYOL® 8810 and MIGLYOL® 8810 ECO

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