



IOI OLEOCHEMICAL

PERSONAL CARE

# TECHNICAL DATA SHEET

## MIGLYOL<sup>®</sup> DO

INCI: Decyl Oleate



- REDUCES TACKINESS
- MEDIUM SPREADING
- NON-OILY EMOLLIENT



## DESCRIPTION

**MIGLYOL® DO** is a medium spreading emollient with a low polarity. Its non-oily character and excellent compatibility make it the right choice for a wide range of personal care and cosmetic applications. It is vegan, halal, 100% natural, available in RSPO MB certified grade and produced exclusively in Germany.

It is a wax-ester made of decyl alcohol and oleic acid. MIGLYOL® DO is a clear, slightly yellowish low viscosity oil, having a faint characteristic odor. The addition of mixed vegetable tocopherols and a citric acid ester (Glyceryl Citrate/Lactate/Linoleate/Oleate) as synergist protects MIGLYOL® DO against oxidation during storage. Anyway, the peroxide value may increase depending on the storage condition. This increase does not diminish the product quality if the peroxide value does not exceed 7 meq O<sub>2</sub>/kg.

## APPLICATION

**MIGLYOL® DO** leaves a light, non-oily, well caring, smooth and velvety skin feeling. Due to its similar structure to skin lipids, it supports the barrier function of the skin. Moreover, it can also reduce the tackiness of formulations containing heavy oils. The sensory is often compared to popular MCT oil. However, MCT can develop an unpleasant odor on a minority of people who are able to split MCT. With MIGLYOL® DO you can easily replace the part of MCT without risking a change in odor. It is therefore suitable for the following applications:

- |  |  |  |  |
|--|--|--|--|
| <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® DO** is miscible with all kind of oils and insoluble in water.

## FORMULATION HINTS

- Recommended concentration of **MIGLYOL® DO**: 1 – 30 %
- Applicable for cold or hot processes
- Add MIGLYOL® DO to the oil phase
- Recommended pH value: 4.5 – 7.0
- Due to the presence of unsaturated ingredients, the use of antioxidants, e.g. tocopherol, may be advisable



# FORMULATION GUIDE

## SHEER INNOCENCE LIPSTICK NO. 810

This sheer lipstick gives your lips everything they could ever ask for. A subtle lip tint combined with great moisturizing properties due to the SOFTISAN® conditionHAIR. SOFTISAN® 378 positively influences the melting behavior on the lips and SOFTIGEN® 701 ECO leads to a better glideability of the lipstick.

	Trade Name	INCI	%
<b>PHASE A</b>	MIGLYOL® DO	Decyl Oleate	12.60
	WITARIX® MCT C8 pure coconut	Tricaprylin	10.00
	MIGLYOL® 829 ECO	Caprylic/Capric/Succinic Triglyceride	10.00
	SOFTISAN® 378	Caprylic/Capric/Myristic/Stearic Triglyceride	6.00
	IMWITOR® PG3 DIS	Polyglyceryl-3 Diisostearate	10.00
	SOFTISAN® conditionHAIR	PCA Glyceryl Oleate	2.00
	SOFTISAN® 649	Bis-Diglyceryl Polyacyladipate-2	0.50
	SOFTIGEN® 701 ECO	Glyceryl Ricinoleate (and) Tocopherol	5.00
	6607L Sunflower Seed Wax	Helianthus Annuus (Sunflower) Seed Cera (and) Ascorbyl Palmitate (and) Tocopherol	8.00
	2039L Candelilla Wax	Euphorbia Cerifera (Candelilla) Cera	14.00
	Castor Oil	Ricinus Communis (Castor) Seed Oil	20.00
	Cosphaderm® T-70 NON GMO ECO	Tocopherol (and) Helianthus Annuus (Sunflower) Seed Oil	0.50
<b>PHASE B</b>	Fiesta Copper Coral FCL-CCO	Synthetic Fluorphlogopite (and) CI 77981 (and) CI 16035 (and) CI 77861	2.07
	Ecoperse Red 6 R6L-D94	CI 15850:2 (and) Octyldodecyl Oleate	1.10
	Ecoperse White W-47051	CI 77891 (and) Octyldodecyl Oleate	1.47
	Ecoperse Yellow 5 Y5L-69002	FD&C Yellow 5 Al Lake (and) Octyldodecyl Oleate	0.27
	Majestic Rhubarb MCM-RIO4	Mica (and) CI 77492	1.08
	6800026 Raspberry Lips	Parfum (EU)/Fragrance (US)	0.40

### PREPARATION:

- Mix and heat all materials to 80°C. If possible, disperse the powder first in WITARIX® MCT C8.
- Add the perfume immediately before filling the lipstick into the molds.

### SUPPLIERS:

**IOI Oleo GmbH: IMWITOR®, MIGLYOL®, SOFTIGEN®, SOFTISAN®, WITARIX®**  
 KahlWax: Sunflower Seed Wax, Candelilla Wax  
 Cosphatec: Cosphaderm®  
 Sandream impact: Fiesta Copper Coral, Ecoperse, Majestic, Rhubarb  
 Bell: Parfum



**FEEL IT! COLD PROCESS MOISTURIZING LOTION NO. 848**

IMWITOR® 375 is a natural and versatile liquid emulsifier that allows the formulator to create light textures, without any compromise in terms of stability. MIGLYOL® Coco 810 leaves a light and silky skin feel and enhances the spreadability of the cream due to its fast spreading capability. MIGLYOL® T-C7 leads to a light, smooth and non-oily skin feel. MIGLYOL® DO and OE lead to a rich and smooth skin feel with long playtime while reducing the tackiness of the lotion.

	Trade Name	INCI	%
<b>PHASE A</b>	<b>IMWITOR® 375</b>	<b>Glyceryl Citrate/Lactate/Linoleate/Oleate</b>	<b>4.0</b>
	<b>MIGLYOL® Coco 810</b>	<b>Coco-Caprylate/Caprate</b>	<b>6.0</b>
	<b>MIGLYOL® T-C7</b>	<b>Triheptanoin</b>	<b>6.0</b>
	<b>MIGLYOL® DO</b>	<b>Decyl Oleate</b>	<b>5.0</b>
	<b>MIGLYOL® OE</b>	<b>Oleyl Erucate</b>	<b>5.0</b>
	Sucrathix® VX	Microcrystalline Cellulose (and) Cellulose Gum (and) Xanthan Gum	1.0
<b>PHASE B</b>	Water demin.	Aqua	68.6
	Glycerin	Glycerin	3.0
	Cosphaderm® POP	Propanediol (and) Caprylyl Glycol (and) Phenylpropanol	1.0
<b>PHASE C</b>	Nivesse DF Extra 0797442	Parfum (EU)/ Fragrance (US)	0.40

**PREPARATION:**

1. Mix phase A until a transparent solution is obtained.
2. Add phase B to phase A and homogenize (3 min @ 12.000 rpm).
3. Add phase C and mix. If necessary, homogenize again.
4. Adjust pH to pH 5.5 - 6.5 if necessary.

**SUPPLIER:**

**IOI Oleo: IMWITOR®, MIGLYOL®**  
 Alchemy Ingredients: Sucrathix®  
 Cosphatec: Cosphaderm®  
 Bell: Parfum



## HANDLING AND SHELF LIFE

The shelf life for MIGLYOL® DO is at least 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

Drum with 180 kg, 720 kg on CP3 pallet

### IOI Oleo GmbH

Hamburg, Germany | +49 40 28 00 31-0  
personalcare@ioioleo.de | www.ioioleo.de

Raw material approved by ECOCERT GREENLIFE, compliant with the COSMOS standard

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