



IOI OLEOCHEMICAL

PERSONAL CARE

TECHNICAL DATA SHEET

MIGLYOL® T-C7

INCI: Triheptanoin



THE POLYVALENT SMOOTH GLIDER

Alternative natural emollient with high polarity, moisturizing effect and smooth gliding lightnessit



DESCRIPTION

MIGLYOL® T-C7 is the polyvalent smooth glider for your next formulation. This light and medium spreading emollient offers a **high polarity** making it a perfect fit for all sun and color care formulas.

It is a triglyceride of heptanoic acid. MIGLYOL® T-C7ze is a colorless (clear) liquid with characteristic odor. This emollient is loved by formulators, consumers, and the planet. Why? It is **vegan**, 100% natural, **based on renewable sources** and produced exclusively in Germany. Moreover, it is non-irritating to eyes, **non-toxic** to aquatic organisms and readily **biodegradable**.

APPLICATION

MIGLYOL® T-C7 offers a smooth, light (medium diffusion, low stickiness & film-forming) and lubricating (high gliding, medium penetration & oiliness) sensory.

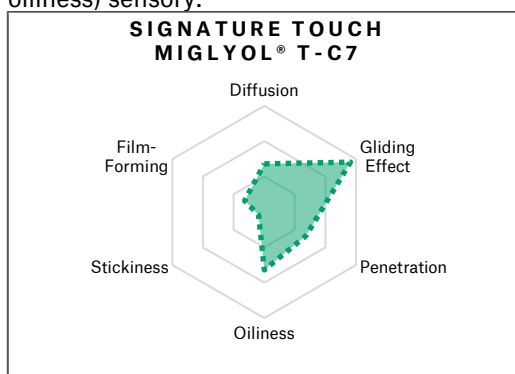


Figure 1: Signature Touch MIGLYOL® T-C7

The after-feel can be described as smooth, low film-forming, non-oily and moisturizing. And not only the feel is moisturizing, but this ester itself.

Corneometry tests¹ with 20% MIGLYOL® T-C7 used in a simple emulsion show a strong moisturizing effect (+30%, T1h) with quick hydration and fast penetration into the skin.

An external dermatologist has confirmed the improvement of skin softness, confirmed again by a panel test that has found the emulsion containing MIGLYOL® T-C7 to be nourishing (80%), hydrating (90%) and skin softening (80%).

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

MIGLYOL® T-C7 is miscible with all fats and oils and is insoluble in water. MIGLYOL® T-C7 can be mixed in any ratio with any liquid UVA, UVB and infrared filter e.g. OCR, EHS, HMS and EHMC.

FORMULATION HINTS

- Recommended concentration of **MIGLYOL® T-C7**: 1 – 50%*
 - Skin & Baby Care: 1 – 30%
 - Color Care: 1 – 30%, MIGLYOL® T-C7 helps wetting pigments
 - Sun Care: 1 – 20%, due to its high polarity it dissolves crystalline UV-filters effectively
 - 14% BMBDM / 9% EHT / 17% BP-3
 - Anhydrous concepts: 5 – 50%
 - Rinse-off formulas & Hair Care: 0.5 – 5.0%, depending on technology
- Applicable for hot and cold processes
- Add MIGLYOL® T-C7 to the oil or surfactant phase
- Recommended pH level: pH 4.0 - 7.0

¹Corneometry test was carried out at external certified third-party laboratory; n = 10; simple emulsion with 20% of test emollient; no glycerine or other humectants were used. Please contact personalcare@ioioleoleo.de for more information on corneometry, dermatologist and panel test.

*Disclaimer: The dosage values used here, only represents a technical indication.

The safety assessment of any formula and ingredient dosage must be assessed by the manufacturer, according to local regulations in force.



FORMULATION GUIDE

DANCING IN THE SKIES – BODY SPRAY NO. 857

Experience this light-as air body spray and feel like dancing in the skies! The liquid emulsifier IMWITOR® 375 enables this cold-processable system and, in combination with the oil phase of just 10%, is responsible for the feather-light touch. MIGLYOL® 8810 ECO provides the water-light feel on the skin, while the medium-spreading MIGLYOL® T-C7, the slow-spreading, deluxe-touch MIGLYOL® 829 ECO and marula oil offer a balanced sensory profile. NOC, ISO 16128 of >98%.

| | Trade Name | INCI | % |
|-----------------|------------------------------|-------------------------------------------------------------------------------------------|------------|
| PHASE A | IMWITOR® 375 | Glyceryl Citrate/Lactate/Linoleate/Oleate | 1.0 |
| | MIGLYOL® 8810 ECO | Butylene Glycol Dicaprylate/Dicaprate | 4.0 |
| | MIGLYOL® T-C7 | Triheptanoin | 3.0 |
| | MIGLYOL® 829 ECO | Caprylic/Capric/Succinic Triglyceride | 2.0 |
| | Marula Oil | Sclerocarya Birrea Seed Oil | 1.0 |
| | Cosphaderm® T-70 Non Gmo Eco | Tocopherol (and) Helianthus Annuus Seed Oil | 0.2 |
| | Defensil® | Octyldodecanol (and) Echium Plantagineum Seed Oil (and) Helianthus Annuus Seed Oil | 2.0 |
| | | Unsaponifiables (and) Cardiospermum Halicacabum Flower/Leaf/Vine Extract (and) Tocopherol | |
| PHASE B0 | Water demin. | Aqua | 77.8 |
| | Vivapur® Tex Sun | Microcrystalline Cellulose (and) Cellulose Gum | 1.5 |
| | | | |
| PHASE B | Glycerin | Glycerin | 3.0 |
| | Euxyl® PE 9010 | Phenoxyethanol (and) Ethylhexylglycerin | 1.1 |
| | Cosphaderm® Pentiol natural | Pentylene Glycol | 3.0 |
| | Aloe Vera Powder | Aloe Barbadensis Leaf Juice Powder | 0.1 |
| PHASE C | Blue Lotus OL | Parfum | 0.3 |
| | NaOH | Sodium Hydroxide | q.s. |

PREPARATION:

COLD PROCESS FORMULA

1. Weigh and mix phase A
2. Weigh phase B0 and homogenize 2 min @9.500 rpm
3. Weigh phase B and add to B0
4. Homogenize phases B/B0 30 sec @ 9.500 rpm
5. Add phases B/B0 to phase A and homogenize 3 min @12.000 rpm
6. Add phase C, adjust pH to 5.3 ± 0.2

SUPPLIERS:

IOI Oleo: IMWITOR®, MIGLYOL®

- Gustav Heess: Plant Oil
 Cosphatec: Cosphaderm®
 Rahn: Defensil®
 JRS: Vivapur®
 Ashland: Euxyl®
 Bell: Parfum



MOONLIGHT GLOW CREAM NO. 845

This water-free formula offers a subtle and soft glow that highlights your best features. **MIGLYOL® T-C7** is a non-oily and light emollient, very polar and therefore helping to disperse the pigments. **WITARIX® MCT C8** transforms from an oily and rich feel to something incredibly soft and silky. **SOFTISAN® 378** melts on your skin, ensures an easy application and leaves a soft and non-oily skin feel. Before dancing in the moonlight, apply the Moonlight Glow Cream to areas wanting to be highlighted – e.g., the cupid's bow, underneath the eyebrow, inner eye corner or decolléage.

| | Trade Name | INCI | % |
|----------------|--------------------------|------------------------------------------------------------------------------------|-------------|
| PHASE A | WITARIX® MCT C8 | Tricaprylin | 50.0 |
| | MIGLYOL® T-C7 | Triheptanoin | 20.0 |
| | SOFTISAN® 378 | Caprylic/Capric/Myristic/Stearic Triglyceride | 5.0 |
| | 6607L Sunflower Seed Wax | Helianthus Annuus Seed Cera (and) Ascorbyl Palmitate (and) Tocopherol | 4.0 |
| | 2039L Candelilla Wax | Euphorbia Cerifera Cera | 3.5 |
| | 6684 Rose Wax | Rosa Damascena Flower Cera | 2.0 |
| | Tocopherol | Tocopherol | 0.5 |
| | Syncrystal Ivory | Synthetic Fluorphlogopite (and) Titanium Dioxide (and) Iron Oxides (and) Tin Oxide | 15.00 |

PREPARATION:

1. For best results mix and heat (60°C) **SOFTISAN® 378** before weighing
2. Weigh and heat phase A to 80 – 85 °C
3. Under stirring, cool down to approx. 70 – 75 °C and pour into molds
4. Allow to cool down to RT

SUPPLIERS:

IOI Oleo: MIGLYOL®, SOFTISAN®, WITARIX®
KahlWax: Wax
Eckart: Pigment

HANDLING AND SHELF LIFE

The shelf life of **MIGLYOL® T-C7** 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

Hobbock with 25 kg, 600 kg on CP3 pallet
Drum with 190 kg, 760 kg on CP3 pallet
IBC with 950 kg

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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