



IOI OLEOCHEMICAL

PERSONAL CARE

TECHNICAL DATA SHEET

MIGLYOL® 829 ECO

INCI: Caprylic/Capric/Succinic Triglyceride



2-0002-04-100-02



THE DELUXE-TOUCH EMOLLIENT

Plant-based low polar emollient with low diffusion and rich cushion sensorial profile



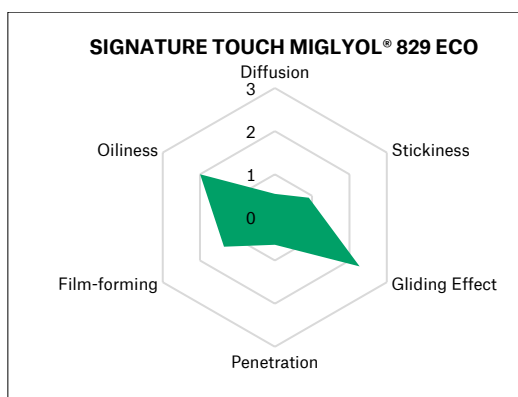
DESCRIPTION

MIGLYOL® 829 ECO is the deluxe-touch emollient for premium cosmetic concepts. It adds a touch of luxury to massage or spa formulas, lip balms, body butters but also to light sprays and lotions, where it counteracts an unpleasant dry feel due to the used low percentage of oil (<5-10%).

It is a glycerin ester of caprylic and capric acid, combined with natural succinic acid. MIGLYOL® 829 ECO is a clear, light-yellow liquid triglyceride with a characteristic odor and stays liquid at 0°C. Its renewable sources make this triglyceride 100% **natural, vegan** and **RSPO MB** certified. Moreover, it is practically non-toxic to aquatic organisms and readily **biodegradable**.

APPLICATION

Want to bring your formula to the next level? Opt for MIGLYOL® 829 ECO and transform your formulas into a deluxe sensation.



Unlike common MCT types, this specialty is crosslinked by natural succinic acid which leads

- Skin Care
- Baby Care
- Self-Tanning

- Body Care
- Hair Care
- Beard Care

- Sun Care
- Bath Care
- Deodorants

- Color Cosmetics
- Wet Wipes
- Intimate Hygiene

to an enlarged molecule with new properties. Its higher viscosity (like castor oil) and smooth rich sensory (low diffusion, low penetration, and medium oiliness) create the deluxe touch (high gliding effect, medium film-forming).

Corneometry and tewametry tests¹ show the efficiency of this ingredient (moisturizing & film-forming), making it ideal for caring and replenishing concepts.

A dermatologist attested the improvement of skin softness, confirmed by a panel test that found the emulsion containing MIGLYOL® 829 ECO to be nourishing (90%), hydrating (90%) and skin softening (100%).

FORMULATION HINTS

- Recommended concentration of **MIGLYOL® 829 ECO**: 1 – 30%²
 - Formulas with low oil amount (<5%) can lead to unpleasant dry skin feeling, 1 – 2% MIGLYOL® 829 can counteract this unwanted sensation
 - Pigment wetting/binding properties, offers a soft buttery touch in powders
- Applicable for cold and hot processes
- Add MIGLYOL® 829 ECO to the oil phase, miscible with all kind of oils and other ingredients
- Recommended pH value: pH 4.5 – 7.5
- For stable two-phase formulations with free-floating oil droplets, add MIGLYOL® 829 ECO to the thickened water phase (gellan gum and xanthan gum works best) and stir slightly

¹Corneometry and tewametry test were carried out at a certified external third-party laboratory; n = 10; Please contact personalcare@ioioleo.de for more information.

²Disclaimer: 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 the 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 polyvalent smooth gliding MIGLYOL® T-C7, the deluxe-touch MIGLYOL® 829 ECO and marula oil complete the balanced sensory profile. NOC 0.98 (ISO 16128), vegan.

| | 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



KEEP IT TOGETHER! BROW POWDER, NO 862

Enhance any look with the Keep it together! Brow Powder. This powder offers a soft, buttery touch thanks to the low diffusing MIGLYOL® 829 ECO. This medium film-forming emollient wets all powders and keeps the formula together. SOFTISAN® GC8 improves the anti-microbial stability and acts as wetting agent. NOC 0.98 (ISO 16128), vegan.

| | Trade Name | INCI | % |
|----------------|---|---|---------------------------|
| PHASE A | Unipure Brown LC 887 | CI 77491 (and) CI 77499 (and) CI 77492 | 17.5 |
| | SunCroma™ Black Iron Oxide | CI 77499 | 21.0 |
| | Synafil S 1050 | Synthetic Fluorphlogopite | 34.3 |
| | Maisita 9040 | Zea Mays Starch | 12.7 |
| | Zinc Stearate | Zinc Stearate | 3.0 |
| PHASE B | MIGLYOL® 829 ECO SOFTISAN® GC8 | Caprylic/Capric/Succinic Triglyceride Glyceryl Caprylate | 11.0 0.5 |

PREPARATION:*COLD PROCESS FORMULA*

1. Mix phase A and stir (30 sec @ 2.500 rpm with Speedmixer/Stirrer/Grinder)
2. If necessary, melt SOFTISAN® GC8 and add phase B to phase A
3. Stir (30 sec @ 2.500 rpm with Speedmixer/Stirrer/Grinder)
4. Add powder to the pan and press (30 sec @ 100 bar)

SUPPLIER:**IOI Oleo: MIGLYOL®, SOFTISAN®**

Sensient: Unipure
Sun Chemical: SunCroma™
Eckart: Synafil
Agrana: Maisita

HANDLING AND SHELF LIFE

The shelf life for MIGLYOL® 829 ECO is at least twenty-four 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

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