



IOI OLEOCHEMICAL

PERSONAL CARE

TOUCHING TECHNOLOGIES



IOI Oleo GmbH

TOUCHING TECHNOLOGIES



About Technologies

Innovators of the first hour with the vision of Arthur Imhausen in 1912, our specialty ingredients IMWITOR®, MIGLYOL®, SOFTIGEN®, SOFTISAN®, DYNASAN® & WITARIX® inspire trust and cost-effective reliability.

Today equipped with first class GMP certified production, IOI Oleo GmbH (part of IOI Oleochemical Division) proudly produces in Germany the highest quality of esters and natural ingredients for pharmaceutical, cosmetics & nutrition applications.



Sensorial Technologies

A broad portfolio of multifunctional ingredients from emollients to emulsifiers makes IOI Oleo a creative partner for both modern and nature-based cosmetic formulators.

Let our experience develop and support your tailor sensorial profile and make this touch become your signature.



Emotional Technologies

The sustainability, touch and after-feel of your next formula is of utmost importance to create an impactful consumer experience.

Our passionate team will provide you with a full range of emotion-providing solutions to pick the best story and sensory profile you need for your concept.

All of this, in a constant and transparent respect of Nature.

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INCI REGISTER

INCI	Trade Name	China compliant	Page
Bis-Diglyceryl Polyacyladipate-1	SOFTISAN® 645	●	29
Bis-Diglyceryl Polyacyladipate-2	SOFTISAN® 649	●	29
Butylene Glycol Dicaprylate/Dicaprate	MIGLYOL® 8810 , MIGLYOL® 8810 ECO (NEW)	●	16
Caprylic/Capric Glycerides	IMWITOR® 742 (MTO)	⦿	31
Caprylic/Capric Triglyceride	WITARIX® MCT 60/40, WITARIX® MCT 60/40 coconut based, WITARIX® MCT 60/40 SG, (NEW) (MTO) WITARIX® MCT 70/30	● ⦿ ⦿ ⦿	19
Caprylic/Capric Triglyceride (and) Hydrogenated Rapeseed Oil	SOFTIGEN® PURA	●	19
Caprylic/Capric Triglyceride (and) Stearalkonium Hectorite (and) Propylene Carbonate	MIGLYOL® Gel B	●	32
Caprylic/Capric/Myristic/Stearic Triglyceride	SOFTISAN® 378	●	19
Caprylic/Capric/Succinic Triglyceride	MIGLYOL® 829, MIGLYOL® 829 ECO	●	19
Coco-Caprylate/Caprate	MIGLYOL® Coco 810	●	16
Decyl Oleate	MIGLYOL® DO (MTO)	⦿	16
Glyceryl Caprylate	SOFTISAN® GC8, SOFTISAN® GC8 PalmFree	●	31
Glyceryl Citrate/Lactate/Linoleate/Oleate	IMWITOR® 375	●	23
Glyceryl Citrate/Lactate/Linoleate/Oleate (and) Polyglyceryl-4 Cocoate (and) Polyglyceryl-3 Caprate (and) Glyceryl Caprylate	IMWITOR® liteMULS		23
Glyceryl Isostearate	IMWITOR® GMIS	●	24
Glyceryl Oleate	IMWITOR® 948 (MTO)	●	24
Glyceryl Ricinoleate	SOFTIGEN® 701 (MTO) , SOFTIGEN® 701 ECO (MTO)	⦿	31
Glyceryl Stearate	IMWITOR® 491, IMWITOR® 900 K	⦿ ●	23
Glyceryl Stearate Citrate	IMWITOR® 372 P	●	23
Glyceryl Stearate SE	IMWITOR® 960 K	⦿	23
Hydrogenated Coco-Glycerides	SOFTISAN® 100, SOFTISAN® 142	●	35
Hydrogenated Palm Oil	SOFTISAN® 154	●	35
Oleyl Erucate	MIGLYOL® OE (MTO)	●	19

INCI	Trade Name	China compliant	Page
PCA Glyceryl Oleate	SOFTISAN® conditionHAIR	●	29
PEG-6 Caprylic/Capric Glycerides	SOFTIGEN® 767	●	37
Polyglyceryl-2 Caprate	SOFTISAN® PG2 C10	●	31
Polyglyceryl-3 Caprate	IMWITOR® PG3 C10	●	37
Polyglyceryl-3 Diisostearate	IMWITOR® PG3 DIS	●	24
Polyglyceryl-3 Polyricinoleate	IMWITOR® 600	●	24
Polyglyceryl-4 Cocoate	IMWITOR® PG4 Cocoate (MTO)		37
Propylene Glycol Dicaprylate/Dicaprate	MIGLYOL® PPG 810	●	16
Propylene Glycol Dicaprylate/Dicaprate (and) Stearalkonium Hectorite (and) Propylene Carbonate	MIGLYOL® Gel 840 B	●	32
Tricaprylin	WITARIX® MCT C8 WITARIX® MCT C8 pure coconut	● ⦿	16
Tricaprylin (and) Acacia Senegal Gum	SOFTISAN® MagicPOWDER S (NEW)	●	29
Triheptanoin	MIGLYOL® T-C7	●	16
Trimyristin	DYNASAN® 114	⦿	35
Tristearin	DYNASAN® 118	●	35

As registration status can vary since printing, please refer to personalcare@ioioleo.de for most updated status.

- ⦿ IECIC compliant
- IECIC & CSAR compliant

(MTO) Made-to-order

SELECTION CRITERIA GUIDE



EMOLLIENTS							
MIGLYOL® 829	✓	✓	MB	0.87			✓
MIGLYOL® 829 ECO	✓	✓	MB	1.00			✓
MIGLYOL® 8810	✓	✓	MB	0.79			✓
MIGLYOL® 8810 ECO <small>(NEW)</small>	✓	✓	MB	1.00			✓
MIGLYOL® Coco 810	✓	✓	MB	1.00	✓	✓	✓
MIGLYOL® DO <small>(MTO)</small>	✓	✓	MB	1.00	✓	✓	✓
MIGLYOL® OE <small>(MTO)</small>	✓	✓	MB	1.00	✓	✓	✓
MIGLYOL® PPG 810	✓	✓	MB	0.79			✓
MIGLYOL® T-C7	✓	✓		1.00	✓	✓	✓
SOFTIGEN® PURA	✓	✓	MB	1.00	✓	✓	✓
SOFTISAN® 378		✓	MB	1.00	✓	✓	✓
WITARIX® MCT 60/40	✓	✓	MB	1.00	✓	✓	✓
WITARIX® MCT 60/40 coconut based	✓	✓		1.00	✓	✓	✓
WITARIX® MCT 60/40 SG <small>(NEW)</small> <small>(MTO)</small>	✓	✓	SG	1.00	✓	✓	✓
WITARIX® MCT 70/30	✓	✓	MB	1.00	✓	✓	✓
WITARIX® MCT C8	✓	✓	MB	1.00	✓	✓	✓
WITARIX® MCT C8 pure coconut	✓	✓		1.00	✓	✓	✓
EMULSIFIERS							
IMWITOR® 372 P		✓	MB	1.00	✓	✓	✓
IMWITOR® 375	✓	✓		1.00	✓	✓	✓
IMWITOR® 491		✓		1.00	✓	✓	✓
IMWITOR® 600	✓	✓		1.00	✓	✓	✓
IMWITOR® 900 K		✓	MB	1.00	✓	✓	✓
IMWITOR® 948 <small>(MTO)</small>	✓	✓	MB	1.00	✓	✓	✓
IMWITOR® 960 K		✓	MB	1.00	✓	✓	✓
IMWITOR® GMIS	✓	✓		1.00	✓	✓	✓
IMWITOR® liteMULS	✓	✓	MB	1.00	✓	✓	✓
IMWITOR® PG3 DIS	✓	✓		1.00	✓	✓	✓



MULTIFUNCTIONALS							
SOFTISAN® 645	✓	✓	MB	0.85			✓
SOFTISAN® 649	✓	✓	MB	0.85			✓
SOFTISAN® conditionHAIR	✓	✓		1.00	✓	✓	✓
SOFTISAN® GC8	✓	✓	MB	1.00	✓	✓	✓
SOFTISAN® GC8 PalmFree	✓	✓		1.00	✓	✓	✓
SOFTISAN® MagicPOWDER S <small>(NEW)</small>	✓	✓		1.00	✓	✓	✓
SOFTISAN® PG2 C10	✓	✓	MB	1.00	✓	✓	✓
SOFTIGEN® 701 <small>(MTO)</small>	✓	✓		1.00			✓
SOFTIGEN® 701 ECO <small>(MTO)</small>	✓	✓		1.00	✓	✓	✓
IMWITOR® 742 <small>(MTO)</small>	✓	✓	MB	1.00	✓	✓	✓
OLEOGELS & STABILIZING AGENTS							
MIGLYOL® Gel 840 B	✓	✓	MB	0.74			✓
MIGLYOL® Gel B	✓	✓	MB	0.94			✓
SOLID LIPIDS & CONSISTENCY AGENTS							
SOFTISAN® 100	✓	✓	MB	1.00	✓	✓	✓
SOFTISAN® 142		✓	MB	1.00	✓	✓	✓
SOFTISAN® 154		✓	MB	1.00	✓	✓	✓
DYNASAN® 114		✓	MB	1.00	✓	✓	✓
DYNASAN® 118		✓	MB	1.00	✓	✓	✓
SOLUBILIZERS & SURFACTANTS							
IMWITOR® PG3 C10	✓	✓	MB	1.00	✓	✓	✓
IMWITOR® PG4 Cocoate <small>(MTO)</small>	✓	✓	MB	1.00	✓	✓	✓
SOFTIGEN® 767	✓	✓	MB	0.00			✓

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(MTO) Made-to-order

SIGNATURE TOUCH

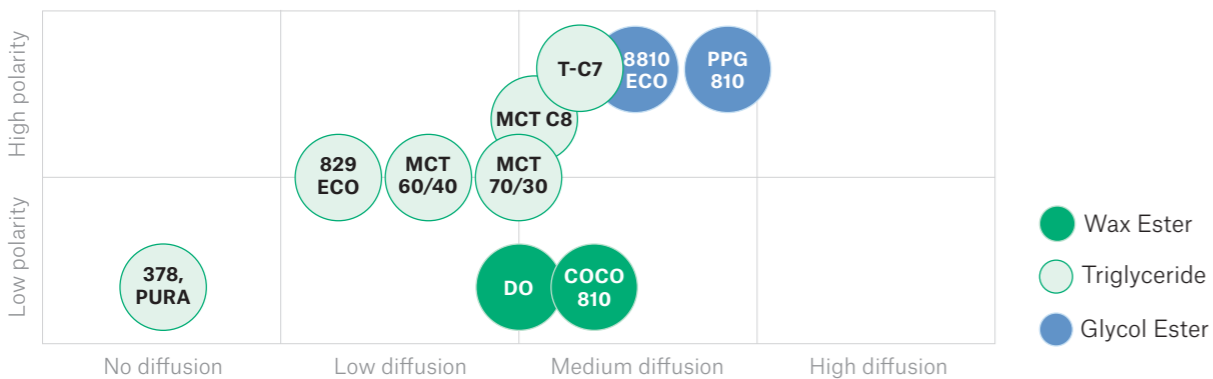
Design your signature touch in three easy steps!

The right choice of emollients underlines the claims of a formula and determines consumers repurchasing willingness.

1. CHOICE OF POLARITY

Typically, high polar and medium to high diffusion emollients ease the dispersibility of lipophilic crystalline UV-filters and facilitate pigment wetting.

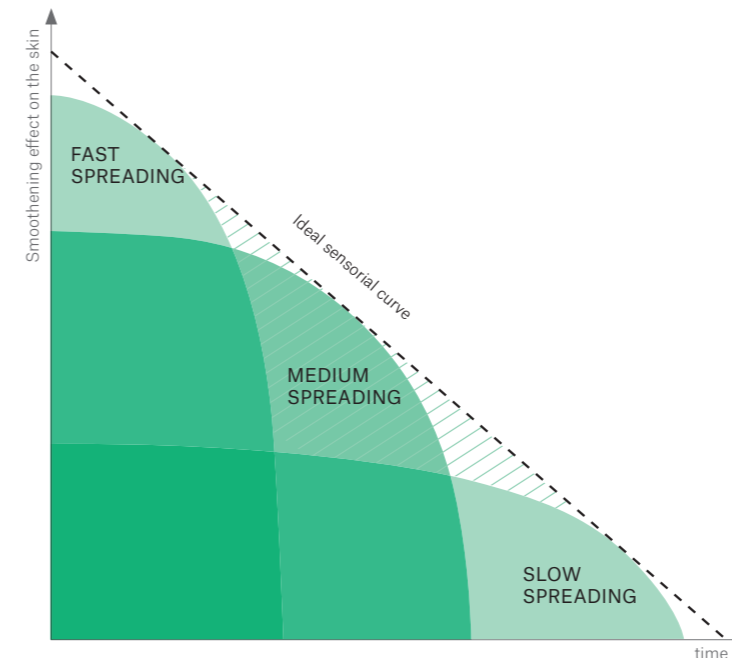
POLARITY VS. DIFFUSION



APPLICATIONS GUIDE

Polarity						
		Skin Care	Sun Care	Color Care	Hair Care	Toiletries
HIGH	MIGLYOL® 8810 types	+++	+++	+++	++	+
	MIGLYOL® PPG 810	+++	+++	+++	++	+
	MIGLYOL® T-C7	+++	+++	+++	++	+
MEDIUM	WITARIX® MCT 60/40 types	+++	++	++	++	+++
	WITARIX® MCT 70/30	+++	++	++	++	+++
	WITARIX® MCT C8 types	+++	+++	+++	++	+
LOW	MIGLYOL® 829 types	+++	++	+++	+++	+
	MIGLYOL® Coco 810	+++	++	++	+++	++
	MIGLYOL® DO ^(MTO)	+++	+	++	+	++
	MIGLYOL® OE ^(MTO)	+++	+	++	+	++
	SOFTIGEN® PURA	+++	+	++	+++	+
	SOFTISAN® 378	+++	+	+++	+++	+

2. CHOICE OF SPREADING BEHAVIOUR

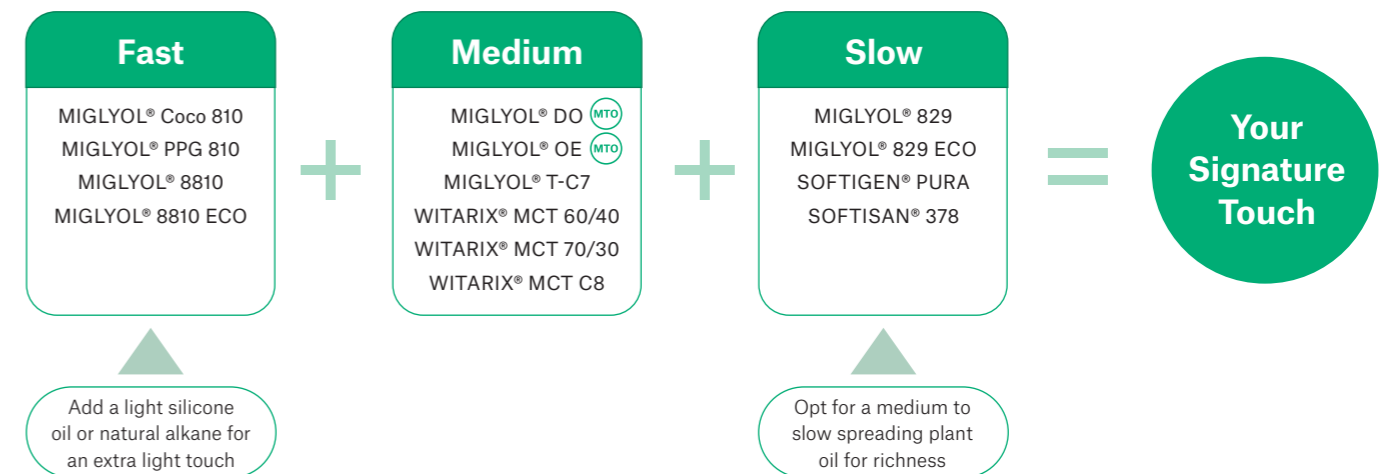


Spreading is a behavior based on passive force (diffusion) and active force (gliding effect). A pleasant spreading cascade is obtained with a combination of fast, medium and slow spreading emollients. By using various spreading behaviors, formulations will present instant and long lasting smoothness as well as no „sensorial gap“ (often felt as drag or waxy during transition from massaging to after-feel).

REALIZATION:

- **Fast spreading** emollients give instant smoothness, but only little long-lasting gliding effect
- **Medium spreading** emollients connect fast and slow spreading emollients, enable a smooth transition on the skin and bring the formula close to the ideal sensorial curve
- **Slow spreading** emollients give long-lasting smoothing and gliding effect, but only little instant smoothness

CHOOSE EMOLLIENTS SPREADINGS BEHAVIOUR FROM BELOW



Did you know?

The spreading value (diffusion) is often influenced by viscosity, molecular weight and molecule size. Polarity is conditioned by e.g. molecule size & ratio of lipophilic and hydrophilic parts (e.g. OH groups).

SIGNATURE TOUCH

3. CHOICE OF INGREDIENT SENSORY

A complex task...

Silky, velvety, rich, greasy, sticky, comfortable...

Describing a sensory with a neutral feedback excluding personal judgement or variation of perception due to external conditions or cultural background is very complex. Even for trained experts.

... Based on simple parameters

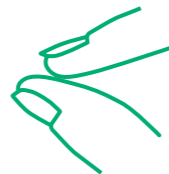
However, a sensory is always the sum or the synergy of individual basic parameters.

IOI Oleo developed a simple method to break complex sensations into standardized measurable objective parameters. Some are here detailed to help you simply design your signature touch.



Gliding effect:

Spread in spiral pressure with the finger to evaluate braking effect



Oily / Greasy Effect:

Finger pinch movement evaluating absence of resistance and oily appearance



Penetration Rate:

Short defined period evaluation of product penetration rate into the skin



Film-Forming Effect:

Evaluation of the notion of residual film over the skin

But also to consider: stickiness, brilliance or more.

Contact us at: carestudio@ioioleo.de for further help.

Design your Signature Touch ...

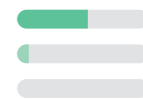
Break complex multifactorial sensories in standardized measurable objective parameters



Flowing silk... A sense of luxury

A silky touch is defined by

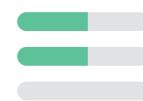
- medium to high gliding effect
- no to low film-forming
- no stickiness



Snuggle up in velvet and feel the cozyness

A velvet touch is defined by

- medium gliding effect
- medium film-forming
- no oiliness



Wrap yourself in rich and nourishing care

A rich touch is defined by

- low diffusion
- low penetration
- medium to high oiliness



The sensory properties shown refer to end products and not to individual ingredients.

SIGNATURE TOUCH

Application - sensory is key!

The desired sensory can vary depending on the place of application, weather, humidity, age, ethnicity and personal preferences.

Airy Eye Cream:

- Low diffusion
- High penetration
- Low oiliness
- Low stickiness

Light Moisturizer with SPF:

- High diffusion
- High gliding
- High penetration
- Low stickiness

Decolletage Cream for Silver Agers:

- High gliding
- Medium to high penetration
- High film-forming
- High oiliness

Nourishing Lip Balm:

- Low diffusion
- Low penetration
- High film-forming
- Medium to high oiliness

Fast-Absorbing Hand Cream:

- High penetration
- Low film-forming
- Low oiliness
- Low stickiness

Caring Deodorant Stick:

- Medium diffusion
- Medium to high gliding
- High penetration
- Low stickiness

Soft Body Lotion:

- High diffusion
- High gliding
- High penetration
- Medium film-forming

Pampering Foot Balm:

- Low diffusion
- High gliding
- Medium penetration
- Medium to high film-forming

SIGNATURE TOUCH

OILINESS



- SOFTISAN® 378
- MIGLYOL® 829 ECO
- MIGLYOL® 8810 ECO
- MIGLYOL® DO
- MIGLYOL® PPG 810
- MIGLYOL® Coco 810, MIGLYOL® T-C7, WITARIX® MCT 70/30, SOFTIGEN® PURA
- WITARIX® MCT 60/40
- WITARIX® MCT C8

Did you know?

Parameters are neutral. For example: oiliness. Oiliness is not negative, an oily ingredient can add richness and a nourishing sensation to a too watery lotion, without making the formulation oily.

GLIDING



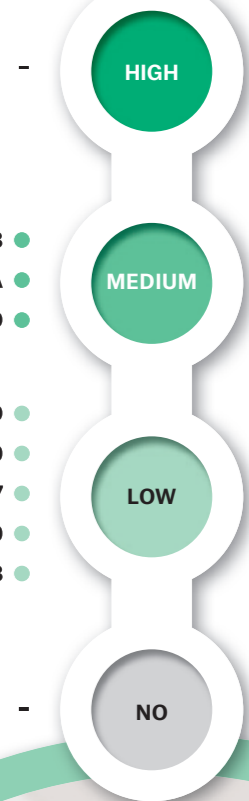
- MIGLYOL® Coco 810, MIGLYOL® 8810 ECO
- MIGLYOL® PPG 810, MIGLYOL® DO
- MIGLYOL® T-C7, WITARIX® MCT C8, WITARIX® MCT 70/30
- WITARIX® MCT 60/40
- MIGLYOL® 829 ECO
- SOFTISAN® 378
- SOFTIGEN® PURA

PENETRATION



- MIGLYOL® Coco 810, MIGLYOL® PPG 810
- MIGLYOL® T-C7
- WITARIX® MCT C8, WITARIX® MCT 60/40
- MIGLYOL® DO, WITARIX® MCT 70/30, SOFTIGEN® PURA
- MIGLYOL® 8810 ECO
- SOFTISAN® 378
- MIGLYOL® 829 ECO

FILM-FORMING



- SOFTISAN® 378
- SOFTIGEN® PURA
- MIGLYOL® 829 ECO
- MIGLYOL® DO
- MIGLYOL® PPG 810, WITARIX® MCT 60/40
- MIGLYOL® 8810 ECO, MIGLYOL® T-C7
- WITARIX® MCT 70/30
- MIGLYOL® Coco 810, WITARIX® MCT C8

EMOLLIENTS

MIGLYOL® Coco 810 NEW DATA



INCI: Coco-Caprylate/Caprate

DIFFUSION: Medium

POLARITY: Low

MIGLYOL® Coco 810 is a low polar emollient with a dry lightness and premium softness. Due to its sensorial profile, it can be considered a true alternative for light mineral oils and silicones (e.g., D5). This safe profile ingredient also offers skin moisturizing properties, making it the ideal solution for all types of skin care concepts and many other applications.

MIGLYOL® 8810 ECO NEW DATA



INCI: Butylene Glycol Dicaprylate/Dicaprate

DIFFUSION: Medium

POLARITY: High

MIGLYOL® 8810 ECO is a medium diffusion, high gliding 100% natural based vegan emollient. Due to its high polarity, it easily solubilizes large amounts of UV-filters and contributes to better SPF retention. Acting as dispersing and wetting help for pigments in color care, it supports formulation of vibrant finished products. With its short playtime, MIGLYOL® 8810 ECO contributes to a water-light, non-oily, non-sticky skin feel.

MIGLYOL® 8810 NEW DATA



INCI: Butylene Glycol Dicaprylate/Dicaprate

DIFFUSION: Medium

POLARITY: High

MIGLYOL® 8810 is a medium diffusion, high gliding natural based vegan emollient. Due to its high polarity, it easily solubilizes large amounts of UV-filters and contributes to better SPF retention. Acting as dispersing and wetting help for pigments in color care, it supports formulation of vibrant finished products. With its short playtime, MIGLYOL® 8810 contributes to a water-light, non-oily, non-sticky skin feel.

MIGLYOL® PPG 810



INCI: Propylene Glycol Dicaprylate/Dicaprate

DIFFUSION: Medium (highest diffusion of IOI Oleo emollient range)

POLARITY: High

MIGLYOL® PPG 810 leaves a light, non-oily, smooth and velvety skin sensation similar to low molecular weight silicone oils. Furthermore, it shows excellent dispersing and dissolving properties for pigments and UV-filters.

MIGLYOL® T-C7 NEW DATA



INCI: Triheptanoin

DIFFUSION: Medium

POLARITY: High

MIGLYOL® T-C7 leaves a light, gently lubricating and velvety skin sensation. Due to its shorter chain length, this triglyceride has a high polarity and shows excellent dispersing and dissolving properties for pigments and UV-filters. The low viscosity makes it particularly suitable for use in wet wipe lotions.

WITARIX® MCT C8 NEW DATA



INCI: Tricaprylin

DIFFUSION: Medium

POLARITY: Medium – High

WITARIX® MCT C8 is a true specialty! This sensory transforming eco-friendly emollient is based on 100% natural, vegan & renewable sources. With its rich-to-light transforming characteristics, it adds a surprising touch to every formula. Its medium diffusion properties and appealing oily and rich feel progressively turn into a very light, non-oily skin feel with striking silkiness and smoothness after absorption. Due to its high polarity, it also is a perfect fit for all sun and color care concepts. Broadly compatible, skin-loving and purely sustainable.

WITARIX® MCT C8 pure coconut NEW DATA



INCI: Tricaprylin

DIFFUSION: Medium

POLARITY: Medium – High

WITARIX® MCT C8 pure coconut is a true specialty! This sensory transforming eco-friendly emollient is based on 100% natural, vegan & renewable coconut sources. With its rich-to-light transforming characteristics, it adds a surprising touch to every formula. Its medium diffusion properties and appealing oily and rich feel progressively turn into a very light, non-oily skin feel with striking silkiness and smoothness after absorption. Due to its high polarity, it also is a perfect fit for all sun and color care concepts. Broadly compatible, skin-loving and purely sustainable.

MIGLYOL® DO MTO



INCI: Decyl Oleate

DIFFUSION: Low

POLARITY: Low

This low diffusion, low polar emollient helps to reduce the tackiness of care formulations. MIGLYOL® DO imparts a light, well-caring skin feel and is an interesting alternative to MCT oils.



EMOLLIENTS



WITARIX® MCT 60/40, WITARIX® MCT 60/40 coconut based, WITARIX® MCT 60/40 SG

INCI: Caprylic/Capric Triglyceride

DIFFUSION: Low

POLARITY: Medium

WITARIX® MCT 60/40 types are low diffusion eco-friendly vegan emollients, based on 100% renewable & natural sources. They are the most widely used base for all kind of formulas and applications. The medium polarity allows easy wetting and dispersing of pigments and UV-filters. With a pleasant rich & oily nature, these versatile emollients are broadly compatible and contribute to all kind of signature touches, from light & silky to rich & luxurious.

WITARIX® MCT 70/30

INCI: Caprylic/Capric Triglyceride

DIFFUSION: Low

POLARITY: Medium

WITARIX® MCT 70/30 has a higher amount of C8 fatty acid compared to WITARIX® MCT 60/40. This composition offers a lighter and more velvety sensoriality.

MIGLYOL® OE

INCI: Oleyl Erucate

DIFFUSION: Low

POLARITY: Low

MIGLYOL® OE provides care and shine for skin, hair and color cosmetics and is a cost-effective alternative to Jojoba Oil. Along with its rich skin feel and long playtime it reduces tackiness of vegetable oils and other triglycerides.

MIGLYOL® 829

INCI: Caprylic/Capric/Succinic Triglyceride

DIFFUSION: Low (lowest diffusion of IOI Oleo emollient range)

POLARITY: Medium

MIGLYOL® 829 is based on Caprylic/Capric Triglyceride units crosslinked with Succinic Acid to form a larger molecule with unique properties. Higher viscosity and low diffusion combined with an excellent lubrication effect give a rich but elegant skin sensation and long playtime. The density close to that of water provides extra stability in emulsions and allows to formulate two-phase products with aqueous base.

MIGLYOL® 829 ECO

INCI: Caprylic/Capric/Succinic Triglyceride

DIFFUSION: Low (lowest diffusion of IOI Oleo emollient range)

POLARITY: Medium

MIGLYOL® 829 ECO is based on Caprylic/Capric Triglyceride units crosslinked with Succinic Acid to form a 100% natural molecule with unique properties. Higher viscosity and low diffusion combined with an excellent lubrication effect give a rich but elegant skin sensation and long playtime. The density close to that of water provides extra stability in emulsions and allows to formulate two-phase products with aqueous base.

SOFTIGEN® PURA

INCI: Caprylic/Capric Triglyceride (and) Hydrogenated Rapeseed Oil

DIFFUSION: No diffusion (pasty ingredient)

POLARITY: Low

SOFTIGEN® PURA is a blend of natural triglycerides of 100% vegetable origin. SOFTIGEN® PURA based products are easily spreadable and give a smooth and velvety skin feel. It is a multifunctional cream base (perfect for rich creams, balms and butters) with similar properties (stability against oxidation, moisturizing and film-forming) as petrolatum.

SOFTISAN® 378

INCI: Caprylic/Capric/Myristic/Stearic Triglyceride

DIFFUSION: No diffusion (pasty ingredient)

POLARITY: Low

SOFTISAN® 378 is the "Melt-on-Touch" emollient that adds body and richness to formulas, moisturizes the skin and shows exceptional oxidative stability. It melts on skin contact and combines a rich, smooth powdery skin sensation to an oily, powdery/velvety after-feel, similar to Shea Butter. But it will make you melt too! Thanks to its caressing, comforting skin feel as well as sustainable eco-friendliness, you will fall for the tenderness-packed SOFTISAN® 378.

SIGNATURE TEXTURE



A stable base is what you need!

The two main emulsion types are Oil-in-Water (O/W) and Water-in-Oil (W/O). What is same for both: You need an emulsifier to create a stable formula.

O/W Emulsifiers	Process	INCI	Charge	Texture	Max % Oil	HLB*
IMWITOR® 372 P		Glyceryl Stearate Citrate	Anionic			10 - 12
IMWITOR® 375		Glyceryl Citrate/Lactate/Linoleate/Oleate	Anionic			10 - 12
IMWITOR® 960 K		Glyceryl Stearate SE	Anionic			9 - 12
IMWITOR® liteMULS		Glyceryl Citrate/Lactate/Linoleate/Oleate (and) Polyglyceryl-4 Cocoate (and) Polyglyceryl-3 Caprate (and) Glyceryl Caprylate	Partly anionic & non-ionic			10 - 12

O/W Co-Emulsifiers	Process	INCI	Charge	Texture	Max % Oil	HLB*
IMWITOR® 491		Glyceryl Stearate	Non-ionic			4
IMWITOR® 742		Caprylic/Capric Glycerides	Non-ionic			5 - 6
IMWITOR® 900 K		Glyceryl Stearate	Non-ionic			4
IMWITOR® 948		Glyceryl Oleate	Non-ionic			3
IMWITOR® GMIS		Glyceryl Isostearate	Non-ionic			4

W/O Emulsifiers	Process	INCI	Charge	Texture	Max % Oil	HLB*
IMWITOR® 600		Polyglyceryl-3 Polyricinoleate	Non-ionic			4
IMWITOR® PG3 DIS		Polyglyceryl-3 Diisostearate	Non-ionic			5

W/O Co-Emulsifiers	Process	INCI	Charge	Texture	Max % Oil	HLB*
IMWITOR® 948		Glyceryl Oleate	Non-ionic			3
IMWITOR® GMIS		Glyceryl Isostearate	Non-ionic			4

Hot & cold process Hot process Made-to-order Perfect fit Good fit

*HLB estimated or calculated

All IMWITOR® emulsifier types can be used in a pH range from 4.5 - 7; IMWITOR® 960 K works best at neutral pH.

O/W EMULSIFIERS



Emulsifiers

IMWITOR® 372 P



INCI: Glyceryl Stearate Citrate

APPEARANCE: White to yellowish flakes

RECOMMENDED CONCENTRATION: 0.5 - 4.0%

HLB: 10 - 12

Optimal pH: 4.5 - 7.0

IMWITOR® 372 P is THE natural classic for modern and sustainable emulsions. This anionic O/W emulsifier comes in easy-to-handle flakes allowing easy processing. Its robust, reliable nature as well as broad compatibility make this viscosity-building ingredient a great fit for various concepts, be it multiple textures (lotion, cream and butter) or applications (baby, skin or hair care). Formulas based on this emulsifier offer easy pick-up, uniform spreading and a pleasant smooth & soft after-feel. Create versatility while maintaining stability with this vegan, natural renewable ingredient!

IMWITOR® 375

NEW DATA



INCI: Glyceryl Citrate/Lactate/Linoleate/Oleate

APPEARANCE: Yellowish liquid (honey-like)

RECOMMENDED CONCENTRATION: 0.5 - 3.0%

HLB: 10 - 12

Optimal pH: 4.5 - 7.0

IMWITOR® 375 is a natural-based anionic O/W liquid emulsifier offering feather-light sensory for a variety of textures and applications. IMWITOR® 375 presents unique benefits for planet-conscious consumers, creative formulators, but also time- and cost-conscious manufacturers. With a safe food-approved profile from natural sources based on sunflower, it helps to speed up developments and processes for a final comfortable light touch, from sprays to creams.

IMWITOR® liteMULS



INCI: Glyceryl Citrate/Lactate/Linoleate/Oleate (and) Polyglyceryl-4 Cocoate (and) Polyglyceryl-3 Caprate (and) Glyceryl Caprylate

APPEARANCE: Yellowish liquid (honey-like)

RECOMMENDED CONCENTRATION: 0.5 - 2.0%

HLB: 10 - 12

Optimal pH: 4.5 - 7.0

100% natural, easy-to-use O/W emulsifier blend. Especially suitable for low viscous emulsions like wet wipe liquids. IMWITOR® liteMULS is also ideal for self-emulsifying bath oils.

IMWITOR® 960 K



INCI: Glyceryl Stearate SE

APPEARANCE: White to yellowish flakes

RECOMMENDED CONCENTRATION: 2.0 - 7.0%

HLB: 9 - 12

Optimal pH: 6.8 - 8.5

IMWITOR® 960 K is a classic anionic emulsifier for rich creams and butters. Works best at neutral pH. This self-emulsifying glyceryl stearate quality has a monoester content of approx. 30%.

Co-Emulsifiers

IMWITOR® 491



INCI: Glyceryl Stearate

APPEARANCE: White powder

RECOMMENDED CONCENTRATION: 1.0 - 3.0%

HLB: 4

IMWITOR® 491 is a non-ionic O/W co-emulsifier with a monoester content of minimum 90%. It enhances the consistency of O/W emulsions.

IMWITOR® 900 K



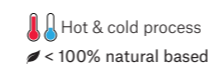
INCI: Glyceryl Stearate

APPEARANCE: White powder

RECOMMENDED CONCENTRATION: 1.0 - 3.0%

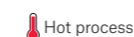
HLB: 4

IMWITOR® 900 K is a non-ionic O/W co-emulsifier with a monoester content of 40 - 55%. It acts as a co-emulsifier and consistency enhancer in O/W emulsions.



Hot & cold process

< 100% natural based



Hot process

100% natural based (ECOCERT/COSMOS approved; NOI of 1.0 according to ISO 16128)

W/O EMULSIFIERS

Emulsifiers

IMWITOR® 600



INCI: Polyglyceryl-3 Polyricinoleate

APPEARANCE: Yellow liquid

RECOMMENDED CONCENTRATION: 2 - 4%

HLB: 4

IMWITOR® 600 is the emulsifier for the out-of-ordinary W/O skin feel! This naturally soft emulsifier offers a soft, non-waxy and non-oily sensory combined with a mild profile. Originated from the sweet world of chocolates, this safe ingredient is a staple in concepts from baby, color to sun care. Be it various textures (from fluid to buttery), a very broad compatibility and flexibility in terms of oil and water phase or pigment wetting properties - The 100% natural and vegan W/O emulsifier offers full flexibility to all formulators!

IMWITOR® PG3 DIS



INCI: Polyglyceryl-3 Diisostearate

APPEARANCE: Slightly yellowish liquid

RECOMMENDED CONCENTRATION: 1 - 4%

HLB: 5

IMWITOR® PG3 DIS is a non-ionic emulsifier for W/O emulsions. In combination with IMWITOR® 600, it forms stable and light emulsions. IMWITOR® PG3 DIS also shows excellent dispersing properties for pigments and anorganic sunscreens.

O/W & W/O Co-Emulsifiers

IMWITOR® 948



INCI: Glyceryl Oleate

APPEARANCE: Yellow liquid

RECOMMENDED CONCENTRATION: 1 - 3%

HLB: 3

IMWITOR® 948 is a versatile non-ionic co-emulsifier with a monoester content of 32-52% that can be used in W/O and O/W emulsions. Glyceryl Oleate improves penetration of emollients into the stratum corneum and enhances skin elasticity. Used in body washes, Glyceryl Oleate reduces skin roughness caused by surfactants. Glyceryl Oleate is also part of human hair lipids. Once adsorbed by the hair, it reduces roughness, thus decreasing combing force of wet hair and enhancing hair gloss.

IMWITOR® GMIS



INCI: Glyceryl Isostearate

APPEARANCE: Slightly yellowish liquid

RECOMMENDED CONCENTRATION: 1 - 3%

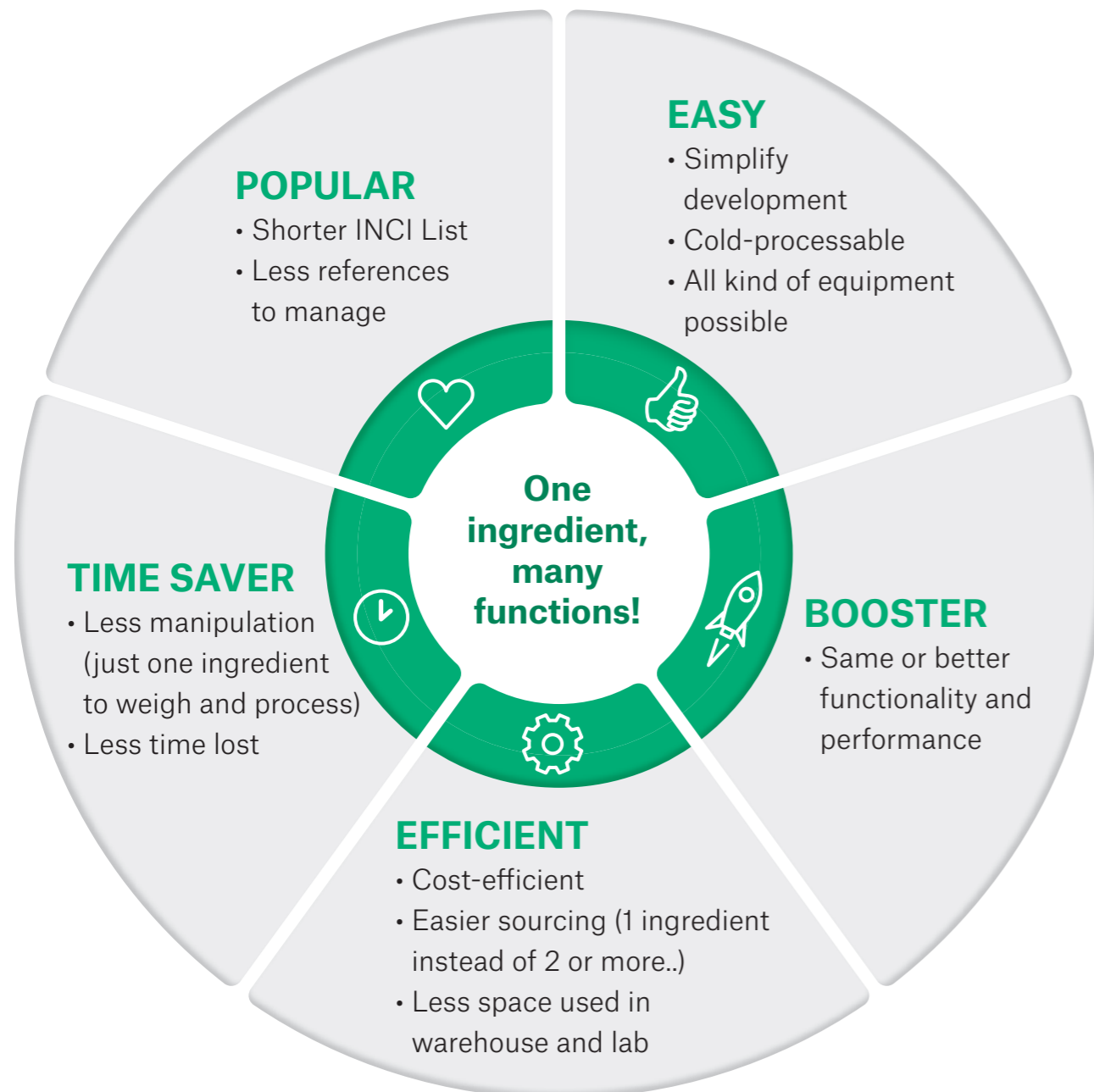
HLB: 4

Co-Emulsifier for O/W and W/O emulsions. This ingredient can be used as skin-conditioning agent. The 100% natural IMWITOR® GMIS is an excellent film former, too.



MULTIFUNCTIONALS

Multifunctionals ease your daily life!



MULTIFUNCTIONALS



Conditioning & Moisturizing Agents

SOFTISAN® conditionHAIR NEW DATA

INCI: PCA Glyceryl Oleate

APPEARANCE: Yellow viscous (honey-like) liquid

RECOMMENDED CONCENTRATION: 0.5 - 2.0%

Optimal pH: 4.0 - 7.0 (pH < 5.5 for natural cationic charge)

SOFTISAN® conditionHAIR is an universal natural cationic conditioner for hair and skin. It acts as deposition aid in hair care applications to improve wet combing and offers moisturization.

SOFTISAN® conditionHAIR is one molecule, based on Pyrrolidone Carboxylic Acid (PCA) and Glyceryl Oleate. PCA is part of the Natural Moisturizing Factor (NMF) of the skin and is responsible for the moisturizing benefits on skin and scalp.

Film-Forming, Conditioning, Moisturizing & Sensorial Agents

SOFTISAN® 645

INCI: Bis-Diglyceryl Polyacyladipate-1

APPEARANCE: Yellowish high viscous fluid

RECOMMENDED CONCENTRATION: 1.0 - 30.0%

SOFTISAN® 645 is a vegan, vegetable-based liquid multifunctional with high water-binding capacity and good adhesion to the skin. The ingredient is non-occlusive and in comparison to lanolin oil virtually odorless. The excellent skin compatibility is proven.

SOFTISAN® 649 NEW DATA

INCI: Bis-Diglyceryl Polyacyladipate-2

APPEARANCE: Yellowish viscous paste

RECOMMENDED CONCENTRATION: 0.5 - 30.0%

SOFTISAN® 649 is a vegan, all-purpose ingredient offering a highly substantive protecting and moisturizing film for an improved skin barrier. This is due to its unique chemical 3D-structure providing both water-resistance and water-binding capacities, like lanolin. The safe and widely used ingredient provides a smooth and caring sensoriality for high performance cosmetics.

This all-purpose ingredient can be used for e.g., moisturizing and skin barrier protecting formulas, long-lasting color care, effective hair care or water-resistant sun or baby care.

Sensorial Benefits & Emulsifying Agents

SOFTISAN® MagicPOWDER S NEW

INCI: Tricaprylin (and) Acacia Senegal Gum

APPEARANCE: Ivory powder

RECOMMENDED CONCENTRATION: 20 - 50% in powder formulas

Cold-processable transforming ingredient allowing simple powder-to-emulsion on-the-go formulas with soft after-feel.

Opening new frontiers for consumer experience or Do-It-Yourself vegan cosmetics, this technological breakthrough instantaneously produces a soft emulsion with the simple addition of water, without use of specific equipment.

Safe, 100% natural origin based, China compliant and with a minimalistic INCI, SOFTISAN® MagicPOWDER S additionally offers emolliency and skin softness for very versatile applications and customized concepts.

Did you know?

- SOFTISAN® MagicPOWDER S offers unique instant emulsification. Simple process: Just add water, no specific equipment needed. Natural, sustainable and fun
- SOFTISAN® conditionHAIR offers the highest natural performance for hair conditioning
- SOFTISAN® 649 is used in color cosmetics to increase adhesion of pigments to the skin for long-lasting performance

MULTIFUNCTIONALS



Sensorial & Anti-Microbial Agents

SOFTISAN® PG2 C10



INCI: Polyglyceryl-2 Caprate

APPEARANCE: Clear viscous liquid

RECOMMENDED CONCENTRATION: 0.5 - 3.0%

SOFTISAN® PG2 C10 is a multifunctional product that combines caring (refatting and moisturizing) with antimicrobial properties and improves the soft touch of emulsions. The polar head consisting of two glycerol units helps to moisturize hair and skin. Due to the antimicrobial properties, SOFTISAN® PG2 C10 represses unpleasant body odors in deo concepts.

Stability Enhancing, Anti-Microbial & Wetting Agents

SOFTISAN® GC8*



INCI: Glyceryl Caprylate

APPEARANCE: White paste or clear liquid, depending on temperature

RECOMMENDED CONCENTRATION: 0.1 - 2.0%

SOFTISAN® GC8 is the natural multichallenge-solving ingredient that simplifies formulator's life and production processes for safe applications from A to Z. Its amphiphilic structure enhances emulsion stability by decreasing the droplet size in O/W emulsions. It eases anti-microbial boosting, both in conventional and alternative preservative systems. Color care concepts benefit from its wetting properties. RSPO MB certified, vegan, eco-friendly.

SOFTISAN® GC8 PalmFree*



INCI: Glyceryl Caprylate

APPEARANCE: White paste or clear liquid, depending on temperature

RECOMMENDED CONCENTRATION: 0.1 - 2.0%

SOFTISAN® GC8 PalmFree is the natural multichallenge-solving ingredient that simplifies formulator's life and production processes for safe applications from A to Z. Its amphiphilic structure enhances emulsion stability by decreasing the droplet size in O/W emulsions. It eases anti-microbial boosting, both in conventional and alternative preservative systems. Color care concepts benefit from its wetting properties. Made from renewable sources, vegan & eco-friendly!

Wetting Agents

IMWITOR® 742 (MTO)



INCI: Caprylic/Capric Glycerides

APPEARANCE: White-yellowish paste or yellowish liquid, depending on temperature

HLB: 5 - 6

RECOMMENDED CONCENTRATION: 0.2 - 25.0%

IMWITOR® 742 is a non-ionic O/W co-emulsifier, which can be used in cosmetic formulations as a dispersant and wetting agent for active ingredients and pigments. Due to its lipophilicity, it can be easily incorporated into oil phases.

Refatting & Film-Forming Agents

SOFTIGEN® 701 (MTO)



INCI: Glyceryl Ricinoleate

APPEARANCE: Yellowish pasty liquid

RECOMMENDED CONCENTRATION: 0.5 - 4.0%

SOFTIGEN® 701 can be used in almost any skin care preparations such as creams, lotions, bath oils, shaving formulations, refatting soap and shower formulations. SOFTIGEN® 701 is well tolerated by the skin and mucosa.

SOFTIGEN® 701 ECO (MTO)



INCI: Glyceryl Ricinoleate (and) Tocopherol

APPEARANCE: Yellowish pasty liquid

RECOMMENDED CONCENTRATION: 0.5 - 4.0%

SOFTIGEN® 701 ECO can be used in almost any skin care preparations such as creams, lotions, bath oils, shaving formulations, refatting soap and shower formulations. SOFTIGEN® 701 ECO is well tolerated by the skin and mucosa.

Hot & cold process Made-to-order

*These products might not be available in your country. Please contact personalcare@ioioleo.de for more information.

< 100% natural based 100% natural based (ECOCERT/COSMOS approved; NOI of 1.0 according to ISO 16128)

OLEOGELS STABILIZING AGENTS

MIGLYOL® Gel B



INCI: Caprylic/Capric Triglyceride (and) Stearalkonium Hectorite (and) Propylene Carbonate

APPEARANCE: Rose-beige paste

RECOMMENDED CONCENTRATION: 1 - 40%

Heat-stable oleogel based on Caprylic/Capric Triglyceride. Because of its high thermal stability, MIGLYOL® Gel B is recommended for the use as consistency regulator in cosmetic preparations where it is important to maintain viscosity over a wide temperature range. It promotes the thermostability of color cosmetics and prevents bleeding and blurring in stick formulations.

MIGLYOL® Gel 840 B



INCI: Propylene Glycol Dicaprylate/Dicaprate (and) Stearalkonium Hectorite (and) Propylene Carbonate

APPEARANCE: Rose-beige paste

RECOMMENDED CONCENTRATION: 1 - 40%

Heat-stable oleogel based on Propylene Glycol Dicaprylate/Dicaprate. Because of its high thermal stability, MIGLYOL® Gel 840 B is recommended for the use as consistency regulator in cosmetic preparations where it is important to maintain viscosity over a wide temperature range. It promotes the thermostability of color cosmetics and prevents bleeding and blurring in stick formulations.

Did you know?

- MIGLYOL® Oleogels show a thixotropic behaviour and offer thickening and suspending, yet ease the spreading
- Oleogels are used as dispersion aid for UV filters, enhance the formulation stability, particularly at elevated temperatures and prevent leaking oil from waterless formulas like lipsticks or balms
- They offer a pleasant sensory: Silky, rich, velvety, non-heavy & soft skin feel

Hot & cold process

< 100% natural based 100% natural based (ECOCERT/COSMOS approved; NOI of 1.0 according to ISO 16128)



SOLID LIPIDS CONSISTENCY AGENTS



SOFTISAN® 100



INCI: Hydrogenated Coco-Glycerides

SOFTISAN® 142



INCI: Hydrogenated Coco-Glycerides

SOFTISAN® 154



INCI: Hydrogenated Palm Oil

APPEARANCE: White pellets or flakes

RECOMMENDED CONCENTRATION: 1.0 - 30.0%

SOFTISAN® 100, 142 & 154 are pure solid lipids that have very sharp melting ranges and exceptional hardness at room temperature.

Melting range:

33.5 - 35.5°C (SOFTISAN® 100)

42.0 - 44.0°C (SOFTISAN® 142)

53.0 - 58.0°C (SOFTISAN® 154)

The small interval between melting and solidification points allows a rapid and economic processing. All SOFTISAN® Solid Lipids can be heated far beyond their melting points without changing their fast solidification time and good contractility.

They impart body and structure to any kind of emulsion or anhydrous formula and can be used for in-shower products as film former (especially SOFTISAN® 100). By combining two or more SOFTISAN® Solid Lipid types, any melting profile can be achieved (33.5 - 58.0°C). Therefore, they are highly recommended for all stick applications like lipstick or eyebrow pencils.

These solid lipids are based on triglycerides of blends of natural, saturated, even-numbered unbranched fatty acids with a chain length of C12-C18. They have a neutral odor and taste and are exceptionally resistant against oxidation.

DYNASAN® 114



INCI: Trimyrustin

DYNASAN® 118



INCI: Tristearin

APPEARANCE: White powder

RECOMMENDED CONCENTRATION: 0.5 - 5.0%

DYNASAN® 114 and DYNASAN® 118 are consistency agents and viscosity adjusters for water-free, oil-based products and emulsions.

DYNASAN® types are used as adjuvants in stick formulations and as crystallization accelerators and seeding agents to improve the solidification process. Furthermore, they can be used in creams and lotions as body-impacting and structure-forming components.

In oil phases, both types are viscosity controlling and thickening agents.

The DYNASAN® types are triesters of glycerin and myristic acid or stearic acid.

DYNASAN® 114 and 118 are highly stable against oxidation and have a neutral odor and taste. The stable β -modification has a very sharp melting point and a triclinic structure.

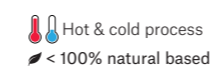
Melting range:

55.0 - 60.0°C (DYNASAN® 114)

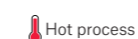
69.0 - 73.0°C (DYNASAN® 118)

Did you know?

- SOFTISAN® 100, 142 and 154 are used in many color cosmetics applications
- Coming from our manufacturing plant operating under Pharma GMP standard, the quality of our products is unrivalled
- SOFTISAN® 100 also acts as main film-forming agent in shower creams and in-shower body lotion concepts



< 100% natural based



100% natural based (ECOCERT/COSMOS approved; NOI of 1.0 according to ISO 16128)

SOLUBILIZERS SURFACTANTS



IMWITOR® PG3 C10



INCI: Polyglyceryl-3 Caprate

APPEARANCE: Yellowish viscous liquid

RECOMMENDED CONCENTRATION: 1.0 - 3.0%

HLB: 13

IMWITOR® PG3 C10 is an excellent refatting agent and provides a soft skin feel. It helps to increase the viscosity of shampoos or shower gels and to enhance foam properties of rinse-off products. Its mild antimicrobial and deodorizing effect can be used in various formulations.

IMWITOR® PG4 Cocoate



INCI: Polyglyceryl-4 Cocoate

APPEARANCE: Clear to yellowish viscous liquid

RECOMMENDED CONCENTRATION: 1.0 - 5.0%

HLB: 10-11

In combination with other surfactants, IMWITOR® PG4 Cocoate can be beneficially incorporated to improve skin feel, mildness, foam characteristics, and to ease the formulation of hydrophobic ingredients like fragrances or oil components.

SOFTIGEN® 767



INCI: PEG-6 Caprylic/Capric Glycerides

APPEARANCE: Yellowish liquid

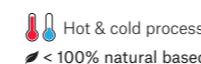
RECOMMENDED CONCENTRATION: 0.5 - 5.0%

HLB: 14

SOFTIGEN® 767 is a water-loving emollient highly popular for its mild yet powerful performance. It adds comfort to any leave-on, rinse-off or surfactant formula, providing a thin caring refatting film that prevents from skin drying. Vegan & RSPO MB renewable sources, manufactured in a pharmaceutical environment, mild top-quality reference: SOFTIGEN® 767 provides the trust you need for any topical applications.

Did you know?

- SOFTIGEN® 767 is one of the most popular surfactants for micellar water concepts
- Wet wipe applications benefit from SOFTIGEN® 767 due to the dual effect of gentle cleansing and noticeable emolliency



Hot & cold process



Made-to-order



100% natural based



100% natural based (ECOCERT/COSMOS approved; NOI of 1.0 according to ISO 16128)

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V3.1





IOI OLEOCHEMICAL

As experts in sustainable natural esters, IOI Oleo GmbH supports leading cosmetics companies creating successful brand sensory by giving their products a unique signature touch.

We design and manufacture specialty ingredients providing sensorial benefits leading to emotional experiences.

That's what we call "Touching Technologies".

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