



IOI OLEOCHEMICAL

PERSONAL CARE

SOFTISAN[®] PG2 C10



WITARIX[®] MCT C8



The Sensory Transformers



SOFTISAN® PG2 C10

INCI: Polyglyceryl-2 Caprate

WITARIX® MCT C8

INCI: Tricaprylin

The Sensory Transformers

Sensory properties are key to underlining the performance of cosmetic applications. Several sensory additives are available on the market, but only a few can transform the sensory profile of a formulation. SOFTISAN® PG2 C10 and WITARIX® MCT C8 are true sensory transformers.

SOFTISAN® PG2 C10 (INCI: Polyglyceryl-2 Caprate) is a palm-based (available as RSPO MB), COSMOS/ECOCERT-conform and vegan ester that enables a soft-touch effect just by adding it to a formulation.

WITARIX® MCT C8 (INCI: Tricaprylin), which is available in palm-based (RSPO MB) or coconut-based form, is a vegan and COSMOS/ECOCERT-conform ester that, when included in a formulation, transforms the sensory profile from rich to light during application.

DATASHEET

FORMULATOR BENEFITS:

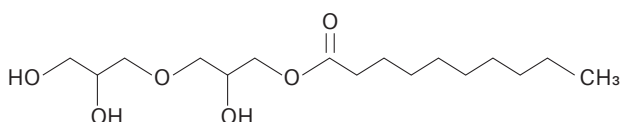
- Requires low dosage: 0.5-2%
- ECOCERT/COSMOS-conform
- 100% natural-based

CONSUMER BENEFITS:

- SOFTISAN® PG2 C10: soft touch
- WITARIX® MCT C8: from rich to light feeling during application

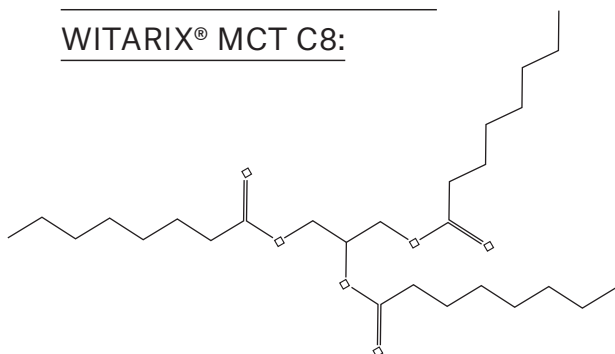
CHEMICAL STRUCTURE

SOFTISAN® PG2 C10:



CHEMICAL STRUCTURE

WITARIX® MCT C8:



DID YOU KNOW?

SOFTISAN® PG2 C10 can be used as a mild surfactant and solubilizer to transform an oil base into an oil cleansing product.

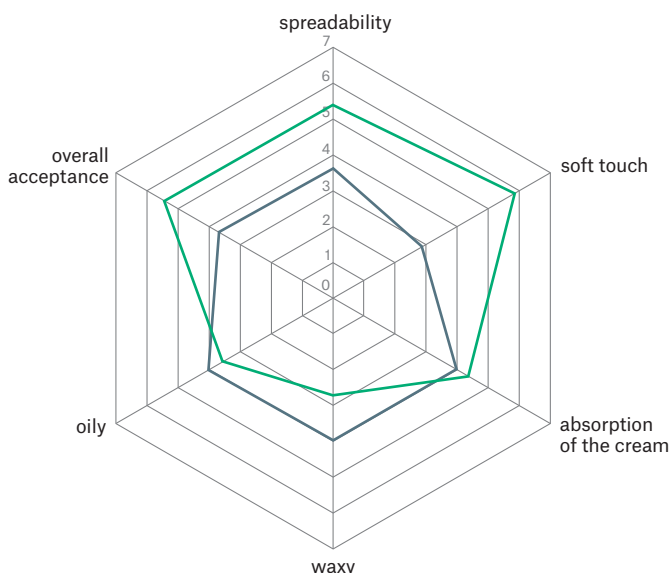
SOFTISAN® PG2 C10: THE SOFT TOUCH

A study was conducted with eight panellists to demonstrate how SOFTISAN® PG2 C10 impacts on the sensory profile of an emulsion.

FORMULATIONS USED:

TRADE NAME	INCI	Base [%]	Base + SOFTISAN® PG2 C10 [%]
IMWITOR® 372 P	Glyceryl Stearate Citrate	3.0	3.0
IMWITOR® 900 K	Glyceryl Stearate	2.0	2.0
Nafol® 1618	Cetearyl Alcohol	3.0	3.0
SOFTISAN® PG2 C10	Polyglyceryl-2 Caprate	-	2.0
WITARIX® MCT 60/40	Caprylic/Capric Triglyceride	20.0	18.0
Keltrol CG	Xanthan Gum	0.3	0.3
Preservative	-	q.s.	q.s.
Water	Aqua	ad. 100.0	ad. 100.0
Fragrance	Parfum (EU)/ Fragrance (US)	q.s.	q.s.

RESULTS:

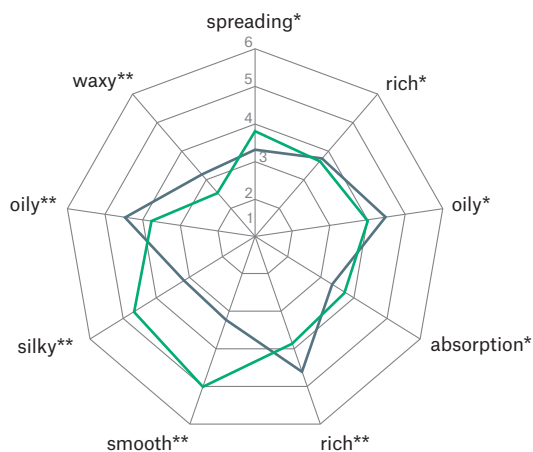


■ cream base ■ cream base + 2% SOFTISAN® PG2 C10 n = 8

The formulation containing SOFTISAN® PG2 C10 resulted in better spreadability and less waxiness, and also received a higher ranking for softness.

WITARIX® MCT C8: FROM RICH TO LIGHT

In a comparison of the sensory profile of WITARIX® MCT C8 and standard WITARIX® MCT 60/40 (INCI: Caprylic/Capric Triglyceride), the panellists evaluated the different parameters during and after application of the product.



■ WITARIX® MCT 60/40

* during application

■ WITARIX® MCT C8

** after application

n = 8

WITARIX® MCT C8 was found to have medium spreading properties and its oily and rich feel (just like MCT) left the skin very smooth and silky with no oily residue after absorption.

DID YOU KNOW?

WITARIX® MCT C8 can disperse and dissolve commonly used UV filters.

SOLUBILITY OF UV FILTER IN	WITARIX® MCT C8
BP-3 (Oxybenzone) [%]	14.0
BMDBM (Avobenzene) [%]	11.0
Ethylhexyl Triazone [%]	8.0
Diethylamino Hydroxybenzoyl Hexyl Benzoate [%]	14.0



FORMULATIONS:

Soft Skin Cream (No.: 771)

PHASE	TRADE NAME	INCI	%
A	IMWITOR® 900 K	Glyceryl Stearate	3.0
A	MIGLYOL® Coco 810	Coco-Caprylate/ Caprate	5.0
A	MIGLYOL® 829 ECO	Caprylic/Capric/ Succinic Triglyceride	2.0
A	MIGLYOL® OE	Oleyl Erucate	4.0
A	SOFTIGEN® PURA	Olus Oil	5.0
A	SOFTISAN® PG2 C10	Polyglyceryl-2 Caprate	1.0
A	SOFTISAN® 100	Hydrogenated Coco-Glycerides	3.0
A	SOFTISAN® 378	Caprylic/Capric/ Myristic/Stearic Triglyceride	0.5
A	Jojoba Oil	Simmondsia Chinen- sis Seed Oil	1.0
A	Nacol® 18-98	Stearyl Alcohol	0.5
A	Cetiol® MM	Myristyl Myristate	1.0
A	Stearic Acid	Stearic Acid	3.0
B	PNC 400	Sodium Carbomer	0.2
B	SOFTISAN® GC8	Glyceryl Caprylate	0.3
B	Phenoxyethanol	Phenoxyethanol	0.7
B	Glycerin 99,5	Glycerin	5.0
B	Aqua dem.	Aqua	ad. 100.0
C	Potassium Hydroxide 10% in water	Potassium Hydroxide	1.2
D	Fragrance	Parfum (EU) / Fragrance (US)	q.s.

Preparation:

1. Heat phases A and B separately to approx. 75-80 °C
2. Add phase C to phase B
3. Add phase A to phase B/C while stirring
4. Homogenise
5. Cool while gently stirring to 40°C
6. Add phase D
7. Homogenise for a short time

Suppliers:

IOI Oleo GmbH: MIGLYOL®, IMWITOR®, SOFTIGEN®, SOFTISAN®

Sasol: Nacol®

BASF: Cetiol®

Neochem: PNC 400

Cosphatec: Cosphaderm®

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Balm-to-Oil Moisturising Cleanser (No.: 811)

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

Preparation:

1. Heat phase A to 75°C
2. Cool down to 45°C while stirring

Suppliers:

IOI Oleo GmbH: IMWITOR®, MIGLYOL®, SOFTISAN®, SOFTIGEN®, WITARIX®

KahlWax: Beeswax, Rosewax

BASF: Plantacare®

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