



# Technical Data Sheet

## SOFTISAN<sup>®</sup> GC8 PalmFree

INCI: Glyceryl Caprylate

- ❖ ANTIMICROBIAL ACTIVITY
- ❖ HYDRATING AND REFATTING
- ❖ STABILITY ENHANCER



IOI OLEOCHEMICAL

Personal Care



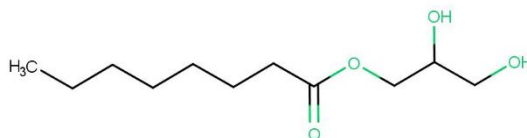
## 1. DESCRIPTION

SOFTISAN® GC8 PalmFree is a highly purified multifunctional ingredient with 88% minimum content of monocaprylate used for alternative preservation, refatting and wetting. It is 100% natural, vegan, free from palm and palm kernel oil and produced exclusively in Germany.

It is obtained by an esterification process of glycerol and caprylic acid. SOFTISAN® GC8 PalmFree is a white, pasty crystalline mass or clear liquid, depending on the storage conditions. In the range between 25°C and 30°C it can be any of both physical forms. Above 30°C it is a clear liquid. This variation in physical form at different temperature is normal and does not have any influence on the product quality or performance in formulations.

## 2. APPLICATION

The high content of monoglycerides (min. 88%) with free hydroxyl groups is well suited to attract and bind water molecules and supports the hydrating properties of cosmetics products. Its amphiphilic characteristic promotes the absorbance of oil components to the upper layers of the skin and lowers the surface tension. This property can lead to smaller droplet size, hence more stable emulsions. In powder formulations it acts as a binder and wetting agent.



Additionally Glyceryl Caprylate exhibits excellent antimicrobial efficacy against microorganisms. This makes it a valuable support for anti-acne products. SOFTISAN® GC8 PalmFree can be used in emulsions, surfactant, hydro alcoholic or oil based or powder formulations. In higher concentrations it can lower the viscosity of emulsions.

- |  |  |  |  |
|--|--|--|--|
| <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 |

SOFTISAN® GC8 PalmFree is soluble in all oils, fats, and mineral oil and dispersible in excess of water.

## FORMULATION HINTS

- Recommended concentration of SOFTISAN® GC8 PalmFree: 0.3 – 0.7%<sup>1</sup>
  - In many cases the use of 1 – 2% improves the microbiological stability of cosmetic products in that way that preservatives are no longer needed.
  - Clear surfactant or hydro alcoholic formulations: 0.3 – 2%
  - Wetting agent/ binder for powder products: 0.3 – 0.5%
- Applicable for hot and cold processes
- Add SOFTISAN® GC8 PalmFree to the water phase.
- Recommended pH level: pH 4.0 – 7.0
- Antimicrobial performance:

Gram+	Gram-	Yeast	Mould
very good	very good	very good	moderate

<sup>1</sup> All formulations and results are shown in the SOFTISAN® GC8 PalmFree leaflet available via [www.ioioleo.de](http://www.ioioleo.de).





### 3. FORMULATION GUIDE

#### ULTRA RICH BARRIER CREAM

No. 805

Skin is our largest organ and protects us from much more than we know. Without it, we would be defenceless! It's finally time to give something back to our skin. For example with IOI's Ultra Rich Barrier Cream, which, thanks to SOFTISAN® 649, effectively supports the skin barrier by lowering the TEWL and thus promotes skin health. In balanced combination with MIGLYOL® T-C7 and MIGLYOL® OE it creates an incredibly rich cream with a pleasant after feel that gently envelops and pampers your skin. When's your next skin pampering day?

Phase A		%
IMWITOR® 600 <sup>1</sup>	Polyglyceryl-3 Polyricinoleate	3.5
MIGLYOL® OE <sup>1</sup>	Oleyl Erucate	3.0
MIGLYOL® T-C7 <sup>1</sup>	Triheptanoin	8.0
WITARIX® MCT 60/40 <sup>1</sup>	Caprylic/Capric Triglyceride	8.0
SOFTISAN® 649 <sup>1</sup>	Bis-Diglyceryl Polyacyladipate-2	1.0
Argan Oil	Argania Spinosa (Argan) Kernel Oil	2.0
Beeswax	Cera Alba	2.0
Shea Butter	Butyrospermum Parkii (Shea) Butter	2.0
<hr/>		
Phase B		
Aqua dem.	Aqua	68.2
SOFTISAN® GC8 PalmFree <sup>1</sup>	Glyceryl Caprylate	0.4
Zinc Sulfate Heptahydrate	Zinc Sulfate	1.2
<hr/>		
Phase C		
Tocopherol	Tocopherol	0.5
Nivesse DF extra <sup>2</sup>	Parfum (EU)/ Fragrance (US)	0.2

#### Procedure:

- Heat phase A and B to 75°C.
- Add phase B to phase A in small amounts with stirring, then homogenize at low/medium speed.
- Cool phase A/B with gentle stirring to approx. 30°C.
- Add phase C and homogenize for a short time.

#### Supplier References:

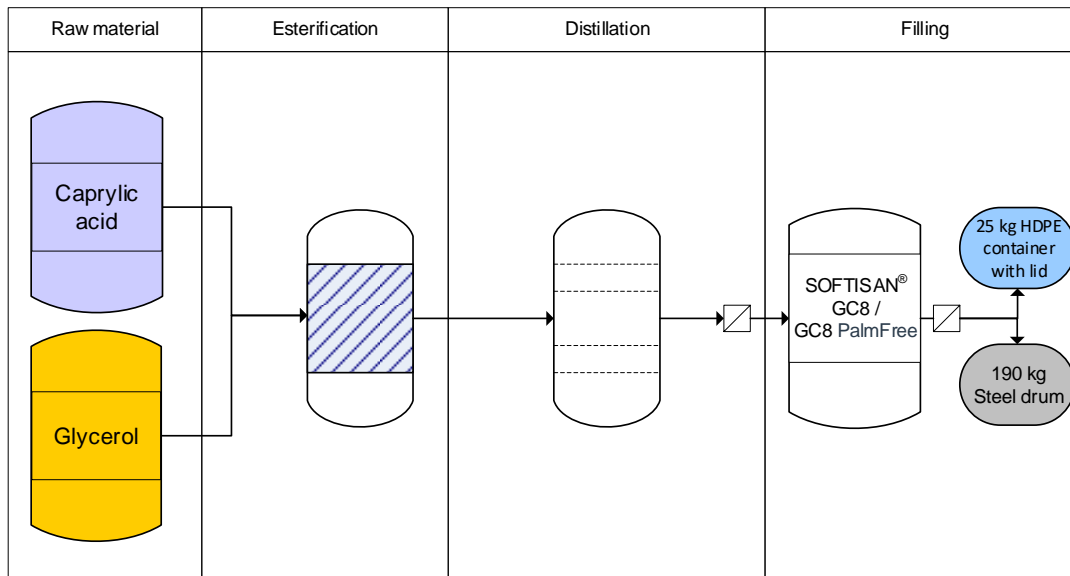
<sup>1</sup>IOI Oleo GmbH, <sup>2</sup> Bell



IOI OLEOCHEMICAL



#### 4. FLOW CHART



#### 5. HANDLING AND SHELF LIFE

Long-term storage: the shelf life for SOFTISAN® GC8 PalmFree 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.

#### 6. PACKAGING UNITS

Hobbock with 25 kg, 600 kg on CP3 pallet

Drum with 190 kg, 760 kg on CP3 pallet





## 7. REGULATORY STATEMENT

	<b>SOFTISAN® GC8 PalmFree</b>
<b>HS Code</b>	38249955
<b>CAS No.</b>	26402-26-6
<b>EU EINECS EC No.</b>	247-668-1
<b>REACH Status</b>	01-2120119773-55-0000
<b>Country of Origin</b>	Germany
<b>USA</b>	registered for import and use in cosmetics
<b>USA-GHS Compliance</b>	Yes
<b>Australia AICS CAS No.</b>	26402-26-6
<b>Canada DSL DSL/NDSL</b>	Revised ICL
<b>Canada WHMIS 2015 Compliance</b>	Yes
<b>China IECIC Standard Chinese Name &amp; Index</b>	甘油辛酸酯 02478
<b>Japan Ingredient/Labeling name</b>	カプリル酸グリセリル
<b>Korean INCI name</b>	글리세릴카프릴레이트
<b>Halal</b>	Yes
<b>Kosher</b>	Yes

Please contact your distribution partner in your country or contact us directly under [personalcare@ioioleo.de](mailto:personalcare@ioioleo.de)  
Hamburg, Germany | +49 40 28 00 31 – 0 | [www.ioioleo.de](http://www.ioioleo.de)

All information and further technical advice (“Information”) are presented in good faith and believed to be correct and based on IOI Oleo GmbH (including all group companies) present technical knowledge. IOI Oleo GmbH makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. As far as legally possible IOI Oleo GmbH will not be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. IOI Oleo GmbH reserves the right to make any changes according to technological progress or further developments in its sole discretion.

IN PARTICULAR, IOI OLEO GMBH MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, THAT THE PRODUCTS TO WHICH THE INFORMATION REFERS MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS, OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS. IN NO CASE SHALL THE INFORMATION BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE.

07.2019/V02



**IOI OLEOCHEMICAL**