



Technical Data Sheet

SOFTISAN[®] GC8

INCI: Glyceryl Caprylate

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



IOI OLEOCHEMICAL

Personal Care



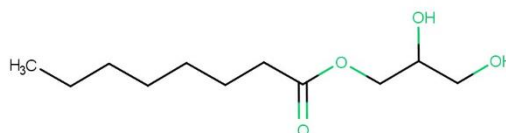
1. DESCRIPTION

SOFTISAN® GC8 is a highly purified multifunctional ingredient with 88% minimum content of monocaprylate used for alternative preservation, refatting and wetting. It is 100% natural, vegan, available in RSPO MB certified quality and produced exclusively in Germany.

It is obtained by an esterification process of glycerol and caprylic acid. SOFTISAN® GC8 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 can be used in emulsions, surfactant, hydro alcoholic or oil based or powder formulations. In higher concentrations it can lower the viscosity of emulsions.

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|--------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------------|
| <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 is soluble in all oils, fats, and mineral oil and dispersible in excess of water.

FORMULATION HINTS

- Recommended concentration of SOFTISAN® GC8: 0.3 – 0.7%¹
 - 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 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

¹ All formulations and results are shown in the SOFTISAN® GC8 leaflet available via 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 ¹	Polyglyceryl-3 Polyricinoleate	3.5
MIGLYOL® OE ¹	Oleyl Erucate	3.0
MIGLYOL® T-C7 ¹	Triheptanoin	8.0
WITARIX® MCT 60/40 ¹	Caprylic/Capric Triglyceride	8.0
SOFTISAN® 649 ¹	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
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Phase B		
Aqua dem.	Aqua	68.2
SOFTISAN® GC8 ¹	Glyceryl Caprylate	0.4
Zinc Sulfate Heptahydrate	Zinc Sulfate	1.2
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Phase C		
Tocopherol	Tocopherol	0.5
Nivesse DF extra ²	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:

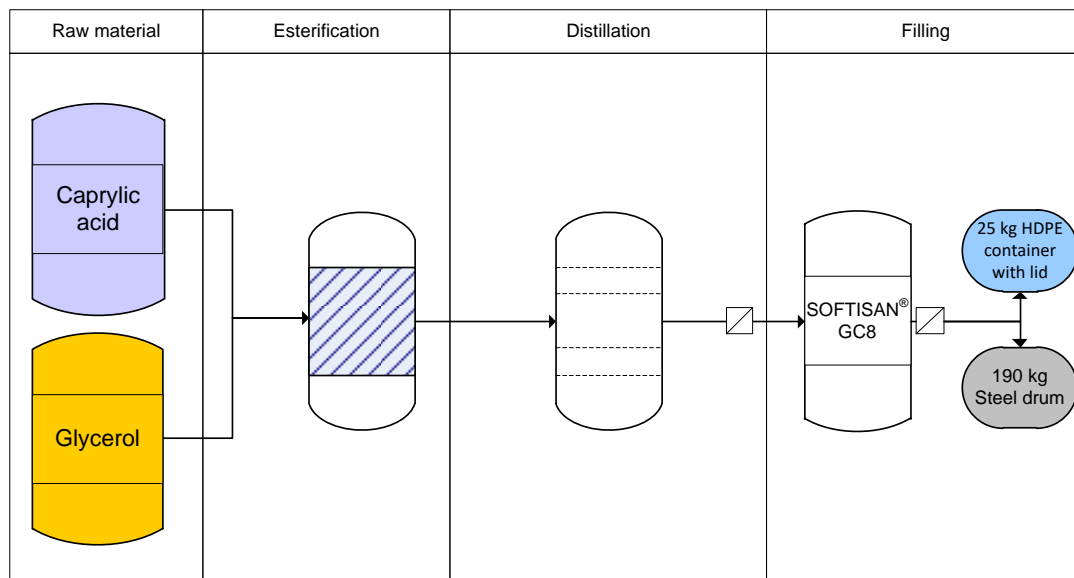
¹IOI Oleo GmbH, ² Bell



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4. FLOW CHART



5. HANDLING AND SHELF LIFE

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

Hobcock with 25 kg, 600 kg on CP3 pallet

Drum with 190 kg, 760 kg on CP3 pallet





7. REGULATORY STATEMENT

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

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