



# Technical Data Sheet

**IMWITOR<sup>®</sup> 928**

**INCI: Glyceryl Cocoate**

- ❖ **O/W CO-EMULSIFIER**
- ❖ **FOR LOW VISCOSITY EMULSION**
- ❖ **100% NATURAL**



**IOI OLEOCHEMICAL**

**Personal Care**



## 1. DESCRIPTION

IMWITOR® 928 is a non-ionic co-emulsifier for O/W emulsions with an estimated HLB of 3 – 4. It is 100% natural, vegan, RSPO MB certified and produced exclusively in Germany.

It is composed of partial glycerides of saturated fatty acids of vegetable oil and has chain lengths of C12 – C18. IMWITOR® 928 is a white to slightly yellowish solid substance (flakes) with a slight coconut odour. It is stable against oxidation due to containing only saturated fatty acids.

## 2. APPLICATION

IMWITOR® 928 acts as a co-emulsifier, absorption promoter, dispersing aid and refatting agent. In comparison to Glycerol Stearate as co-emulsifier, IMWITOR® 928 shows only slight impact on viscosity increase of formulations. Therefore, it is suitable for the stabilisation of low viscous emulsions without increasing the viscosity. Due to the selected fatty acid mixture, formulations with IMWITOR® 928 will show improved skin feeling as in comparison to glyceryl stearate as co-emulsifier.

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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"/> Colour 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 |

IMWITOR® 928 is miscible with all fats and oils. It is slightly soluble in cold water, but has a good water-binding capacity. Upon heating, it forms an emulsion with water.

## FORMULATION HINTS

- Recommended concentration as co-emulsifier: 0,5 – 5%.
- Applicable for pre-emulsions, hot/cold and hot/hot processes (Melting point 34.4°C).
- Suitable main emulsifiers are e.g. IMWITOR® 372 P, IMWITOR® 375 or IMWITOR® liteMULS.
- Recommended pH value 4 – 7.





### 3. FORMULATION GUIDE

#### ROLL-ON DEO

No. 734

Aluminium-free deodorant with SOFTISAN® PG2 C10 for best efficacy and IMWITOR® 928 to obtain a fluid yet stable emulsion.

Phase A		%
IMWITOR® 372 P <sup>1</sup>	Glyceryl Stearate Citrate	1.0
IMWITOR® 928 <sup>1</sup>	Glyceryl Cocoate	0.5
SOFTISAN® GC8 <sup>1</sup>	Glyceryl Caprylate	0.4
SOFTISAN® PG2 C10 <sup>1</sup>	Polyglyceryl-2 Caprate	0.3
Dicaprylyl Ether	Dicaprylyl Ether	3.0
Tegodeo PY 88 <sup>2</sup>	Zinc Ricinoleate	2.0
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Phase B		
Keltrol® CG-T <sup>3</sup>	Xanthan Gum	0.2
Plantacare® 810 UP <sup>4</sup>	Caprylyl/Decyl Glucoside	1.0
Aqua dem.	Aqua	40.0
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Phase C		
Preservative	Preservative	q.s.
Keltrol® CG-T <sup>3</sup>	Xanthan Gum	0.2
Aqua dem.	Aqua	49.7
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Phase D		
Fragrance	Parfum (EU)/ Fragrance (US)	q.s.
Citric Acid	Citric Acid	q.s.

#### Procedure:

- Heat phases A and B separately to approx. 75 – 80°C. Homogenise phase B, then add phase A and homogenise again.
- Homogenise phase C and add to phase A/B with stirring. Cool with gentle stirring to approx. 40°C and add phase D. Adjust pH value to pH 4.5.

#### Supplier References:

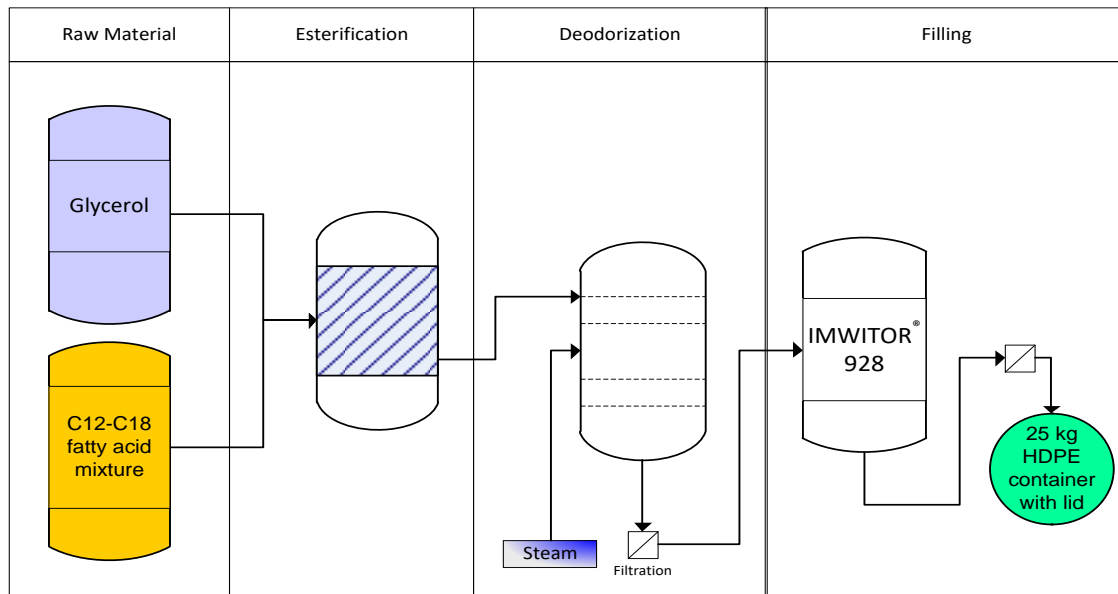
<sup>1</sup>IOI Oleo GmbH, <sup>2</sup>Evonik, <sup>3</sup>CP Kelco, <sup>4</sup>BASF



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#### 4. FLOW CHART



#### 5. HANDLING AND SHELF LIFE

The shelf life for IMWITOR® 928 is at least thirty-six 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





## 7. REGULATORY STATEMENT

	<b>IMWITOR® 928</b>
<b>HS Code</b>	38249955
<b>CAS No.</b>	91052-49-2
<b>EU EINECS EC No.</b>	293-209-3
<b>REACH Status</b>	01-2119963382-35-0000
<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>	61789-05-7
<b>Canada DSL DSL/NDSL</b>	Revised ICL
<b>Canada WHMIS 2015 Compliance</b>	Yes
<b>China IECIC Standard Chinese Name &amp; Index</b>	甘油椰油酸酯 02483
<b>Japan Ingredient/ Labelling name</b>	ヤシ脂肪酸グリセリル
<b>Korean INCI name</b>	글리세릴코코에이트
<b>Halal</b>	Yes
<b>Kosher</b>	Yes

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

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