



IOI OLEOCHEMICAL

PERSONAL CARE

# TECHNICAL DATA SHEET

## IMWITOR® PG4 Cocoate

INCI: Polyglyceryl-4 Cocoate



- **NONIONIC CO-SURFACTANT**
- **REFATTING AGENT**
- **FOAM ENHANCING**



## DESCRIPTION

**IMWITOR® PG4 Cocoate** is a non-ionic co-surfactant for hair and body care with an estimated HLB of 10 - 12. It is a 100% natural, vegan, halal, kosher, RSPO MB quality and produced exclusively in Germany.

It is polyglycerol-4 ester with C12 - C18 fatty acid from coconut oil. IMWITOR® PG4 Cocoate is a clear to yellowish viscous liquid with a characteristic odor.

## APPLICATION

**IMWITOR® PG4 Cocoate** acts as co-surfactant in all kind of shower gels, shampoos, hand washes and facial cleaners. IMWITOR® PG4 Cocoate has refatting and foam enhancing properties. In combination with other surfactants, it improves skin feeling, mildness, foam characteristics and eases the formulation of hydrophobic ingredients like fragrances or oil components.

- |                                       |   |   |  |
|---------------------------------------|---|---|--|
| <input type="checkbox"/> Skin Care    | <input type="checkbox"/> Body Care            | <input type="checkbox"/> Sun Care             | <input type="checkbox"/> Color Cosmetics             |
| <input type="checkbox"/> Baby Care    | <input checked="" type="checkbox"/> Hair Care | <input checked="" type="checkbox"/> Bath Care | <input checked="" type="checkbox"/> Wet Wipes        |
| <input type="checkbox"/> Self-Tanning | <input type="checkbox"/> Beard Care           | <input type="checkbox"/> Deodorants           | <input checked="" type="checkbox"/> Intimate Hygiene |

**IMWITOR® PG4 Cocoate** is dispersible in water and leads to clear solutions with surfactants e.g. sodium laureth sulfate, cocamidopropyl betaine or sulfosuccinate.

## FORMULATION HINTS

- Recommended concentration of **IMWITOR® PG4 Cocoate**: 1 - 5%
- Applicable for cold and hot processes
- Add IMWITOR® PG4 Cocoate to the surfactant/water phase
- Can be combined with all kind of surfactant solutions (anionic, amphoteric, nonionic or cationic) by gentle stirring
- In order to decrease the viscosity, IMWITOR® PG4 Cocoate can be heated to 40°C
- Recommended pH level: pH 4.0 - 6.5



# FORMULATION GUIDE

## CLEANSING HANDFOAM TO GO NO. 774

Cleaning hands everywhere without water or soap and no need for a towel to dry them... is that possible? We make it possible! With our formulation, we offer the basis for a product that takes environmental aspects into account and, at the same time, ensures hygiene and protection for hands. SOFTIGEN® 767 is a popular mild cleansing agent with excellent refatting characteristics and IMWITOR® PG4 Cocoate acts in synergy with other surface-active ingredients to improve the cleansing properties. SOFTISAN® conditionHAIR leads to higher refatting properties in the final product, while ethanol provides a refreshing effect and together with SOFTISAN® GC8 PalmFree provides natural preservation of the product.

|                | Trade Name                     | INCI                             | %    |
|----------------|--------------------------------|----------------------------------|------|
| <b>PHASE A</b> | <b>SOFTIGEN® 767</b>           | PEG-6 Caprylic/Capric Glycerides | 2.5  |
|                | <b>IMWITOR® PG4 Cocoate</b>    | Polyglyceryl-4 Cocoate           | 0.5  |
|                | <b>SOFTISAN® conditionHAIR</b> | PCA Glyceryl Oleate              | 0.3  |
|                | <b>SOFTISAN® GC8 PalmFree</b>  | Glyceryl Caprylate               | 0.8  |
| <b>PHASE B</b> | Water demin.                   | Aqua                             | 78.3 |
|                | Fragrance                      | Parfum (EU)/ Fragrance (US)      | q.s  |
|                | Ethanol (96%)                  | Alcohol denat.                   | 16.0 |
|                | Hamamelis dest.                | Hamamelis Virginiana             | 1.0  |
|                | Panthenol                      | Panthenol                        | 0.5  |
|                | Disodium EDTA                  | Disodium EDTA                    | 0.1  |

### PREPARATION:

1. Heat up phase A to 40°C.
2. Mix phase B at room temperature and add phase B in small portions to phase A. Keep stirring until a clear solution is obtained.

### SUPPLIER:

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



## HANDLING AND SHELF LIFE

The shelf life for IMWITOR® PG4 Cocoate 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.

## PACKAGING UNITS

Hobbock with 25 kg, 600 kg on CP3 pallet

Drum with 190 kg, 760 kg on CP3 pallet

IBC with 900 kg

### IOI Oleo GmbH

Hamburg, Germany | +49 40 28 00 31-0  
personalcare@ioioleo.de | www.ioioleo.de

Raw material approved by ECOCERT GREENLIFE, compliant with the COSMOS standard

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