



IOI OLEOCHEMICAL

PERSONAL CARE

# TECHNICAL DATA SHEET

## IMWITOR® 372 P

INCI: Glyceryl Stearate Citrate



**Robust, reliable, renewable: The natural classic for your emulsions**

Plant-based, anionic, easy-to-use O/W emulsifier, building viscosity for fluid to buttery textures and increased natural stability



## DESCRIPTION

**IMWITOR® 372 P** is the natural classic for modern and sustainable emulsions. Its robust, reliable nature as well as broad compatibility make this viscosity-building ingredient a great fit for various concepts, be it multiple textures (lotion, cream and butter) or applications (baby, skin or hair care). Formulas based on this emulsifier offer easy pick-up, uniform spreading and a pleasant smooth & soft after-feel. Create versatility while maintaining stability with this vegan, natural renewable ingredient!

IMWITOR® 372 P is a partially neutralized ester of monoglycerides and diglycerides of plant-derived edible saturated fatty acids with citric acid with an HLB of 10 – 12. Its easy-to-handle flakes enable dust-free processing. Typically, 2 – 4% as main emulsifier or 0.5 – 2.0% as co-emulsifier are used to impart stability and improve consistency & texture.

**Rely on** the robust and renewable **IMWITOR® 372 P** and embrace consumer expectations with a natural-based vegan-compatible ingredient from renewable resources, **RSPO MB** certified, and readily biodegradable & non-toxic to aquatic organisms.

## APPLICATION

**IMWITOR® 372 P** - this emulsifier is known for its reliability & robust nature and allows working with high and low shear rates; high and low amount of oil; high and low pH and all kind of ingredients used in cosmetic formulas. Trust this mild emulsifier to deliver steady performances, with a safe profile (non-irritating to eyes & non-sensitizing to skin).

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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 type="checkbox"/> Bath Care             | <input 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 |

It is partially soluble in medium chain triglycerides (MCTs), fatty oils and ethanol, compatible with various kinds of emollients, actives and other ingredients and easy to combine with preservatives.

## FORMULATION HINTS

- Recommended concentration of **IMWITOR® 372 P**:
  - As main emulsifier 2 – 4% and above
  - As co-emulsifier 0.5 – 2% and above
- Applicable for hot, one-pot and pre-emulsions (low heat) processes (Melting point: 59 – 63°C)
- Add IMWITOR® 372 P to the oil phase (can also be dispersed in the water phase)
- The use of 0.2 - 0.3% Xanthan Gum is suggested for elevated heat stability
- Combination with non-ionic co-emulsifiers or fatty alcohol increases the consistency & stability
- For oil phases from 10 to 40%
- Recommended pH value: pH 4.5 – 7.0; pH value can drop over time and stays stable once it has reached its final level; buffer systems (e.g., Sodium Lactate or Citrate Buffers) can be used



# FORMULATION GUIDE

## SMOOTHING CLAY MASK NO. 834

This Soothing Clay Mask purifies and cares for your skin. The combination of ingredients makes it perfect for sensitive skin types. IMWITOR® 372 P is a powerful emulsifier that helps emulsify the caring oils. MIGLYOL® Coco 810 functions as a silky emollient, MIGLYOL® 829 ECO provides a long-lasting caring feel and SOFTISAN® conditionHAIR conditions your skin during and post-application as it stays onto your skin, even after rinsing the mask.

The fusion of all these powerful ingredients results in a smooth and creamy textured mask.

Apply a thin layer onto your face, neck and décolletage. Now take a deep breath, relax and wait 10 to 15 minutes until the mask starts to dry/is fully dry. Wash your face or the area applied with lukewarm water or a damp washcloth and enjoy your clean, purified and soothed skin!

|                | Trade Name                     | INCI  | %          |
|----------------|--------------------------------|---|------------|
| <b>PHASE A</b> | <b>IMWITOR® 372 P</b>          | <b>Glyceryl Stearate Citrate</b>  | <b>2.5</b> |
|                | <b>MIGLYOL® Coco 810</b>       | <b>Coco-Caprylate/Caprates</b>  | <b>3.0</b> |
|                | <b>MIGLYOL® 829 ECO</b>        | <b>Caprylic/Capric/Succinic Triglyceride</b>  | <b>3.0</b> |
|                | <b>SOFTISAN® conditionHAIR</b> | <b>PCA Glyceryl Oleate</b>  |            |
|                | Nafol® 1618 H                  | Cetearyl Alcohol  | 1.0        |
| <b>PHASE B</b> | Water demin.                   | Aqua  | 40.9       |
|                | Keltrol® CG-T                  | Xanthan Gum   | 0.7        |
|                | Zemea® Propanediol             | Propylene Glycol  | 5.0        |
|                | Euxyl® PE 9010                 | Phenoxyethanol (and) Ethylhexylglycerin   | 1.0        |
| <b>PHASE C</b> | Syncrystal Jade                | Synthetic Fluorophlogopite (and) Titanium Dioxide (and) Ferric Ferrocyanide (and) Iron Oxides (and) Tin Oxide | 1.5        |
| <b>PHASE D</b> | French Green Clay              | Illite (and) Kaolin (and) Montmorillonite   | 20.0       |
|                | Kaolin                         | Kaolin  | 20.0       |
| <b>PHASE E</b> | Nivesse DF Extra 0797442       | Parfum (EU)/ Fragrance (US)   | 0.4        |

### PREPARATION:

1. Heat phase A and phase B to 80°C.
2. Add phase A to phase B and homogenize (3 min @ 12.000 rpm).
3. Add phase C right at 60°C, then add phase D in small amounts under stirring.
4. Once homogenous add phase E and stir for another 10 min.
5. Adjust pH between 5.0 to 5.5 if necessary.

### SUPPLIERS:

#### IOI Oleo: IMWITOR®, MIGLYOL®, SOFTISAN®

Sasol: Nafol®  
 CP Kelco: Keltrol®  
 DuPont Tate & Lyle: Zemea®  
 Schülke & Mayr: Euxyl®  
 ECKART: Syncrystal  
 Bell: Parfum



**SMOOTHING FOOT BALM NO. 846**

Your feet want some love - show them your appreciation for carrying you every day and everywhere you want to go with this Smoothing Foot Balm. The rich texture smoothes and cares for your feet, not only during the day but especially overnight. We recommend applying a thick layer of this balm, putting on socks and awake with super soft and loved happy feet! IMWITOR® 372 P and IMWITOR® 900 K lead to the creamy texture, whereas SOFTISAN® conditionHAIR moisturizes your feet and improves their skin barrier. The sensory emollients MIGLYOL® Coco 810, WITARIX® MCT C8 and SOFTISAN® 378 provide an instant yet lasting smooth skin feel and care for your stressed feet.

|                | Trade Name                                  | INCI   | %           |
|----------------|---|--|-------------|
| <b>PHASE A</b> | <b>IMWITOR® 372 P</b>                       | <b>Glyceryl Stearate Citrate</b>                                 | <b>4.0</b>  |
|                | <b>IMWITOR® 900 K</b>                       | <b>Glyceryl Stearate</b>   | <b>2.0</b>  |
|                | Nafol® 1618 H                               | Cetearyl Alcohol   | 2.0         |
|                | Nafol 22-98                                 | Behenyl Alcohol  | 1.0         |
|                | <b>MIGLYOL® Coco 810</b>                    | <b>Coco-Caprylate/Caprates</b>                                   | <b>5.0</b>  |
|                | <b>WITARIX® MCT C8</b>                      | <b>Tricaprylin</b>   | <b>11.0</b> |
|                | <b>SOFTISAN® 378</b>                        | <b>Caprylic/Capric/Myristic/Stearic Triglyceride</b>             | <b>7.0</b>  |
|                | <b>SOFTISAN® conditionHAIR</b>              | <b>PCA Glyceryl Oleate</b>                                       | <b>1.0</b>  |
|                | Tocopherol                                  | Tocopherol   | 0.5         |
|                | Sucrathix® VX                               | Microcrystalline Cellulose (and) Cellulose Gum (and) Xanthan Gum | 1.0         |
|                | Frescolat® X-Cool                           | Menthyl Ethylamido Oxalate                                       | 1.0         |
| <b>PHASE B</b> | Water demin.                                | Aqua   | 59.1        |
|                | Cosphaderm® POP                             | Propanediol (and) Caprylyl Glycol (and) Phenylpropanol           | 1.2         |
|                | Glycerin                                    | Glycerin   | 3.0         |
| <b>PHASE C</b> | Oceania 49384079                            | Parfum (EU)/ Fragrance (US)                                      | 0.4         |
|                | Unicert Green K7015-J, 1% Aqueous Solution  | Aqua (and) CI 61570  | 0.6         |
|                | Unicert Yellow 08005-J, 1% Aqueous Solution | Aqua (and) CI 19140  | 0.2         |
|                |   |  |             |

**PREPARATION:**

1. Melt & stir SOFTISAN® 378 before weighing the ingredient.
2. Weigh both phases A and B and heat them separately to approx. 75°C.
3. Add phase B to phase A and homogenize (3 min @ 12.000 rpm).
4. Allow to cool (35 - 40°C) while stirring.
5. Add phase C while stirring.
6. Adjust the pH to pH 5.5 - 6.0 if necessary.

**SUPPLIERS:**

**IOI Oleo: IMWITOR®, MIGLYOL®, SOFTISAN®, WITARIX®**  
 Sasol: Nafol®, Nacol  
 Alchemy Ingredients: Sucrathix®  
 Symrise: Frescolat®  
 Cosphatec: Cosphaderm®  
 drom: Parfum  
 Sensient: Unicert



## HANDLING AND SHELF LIFE

The shelf life for IMWITOR® 372 P 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.

## PACKAGING UNITS

Paper bag with 25 kg; 450 kg on CP2 or DB pallet

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

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