



IOI OLEOCHEMICAL

PERSONAL CARE

TECHNICAL DATA SHEET

IMWITOR® liteMULS

INCI: Glycerol Citrate/Lactate/Linoleate/Oleate,
Polyglyceryl-4 Cocoate, Polyglyceryl-3 Caprate, Glycerol Caprylate



- O/W-EMULSIFIER
- COLD PROCESSABLE
- NO VISCOSITY BUILD-UP



DESCRIPTION

IMWITOR® liteMULS is an easy-to-use emulsifier blend for O/W emulsions with an estimated HLB of 10 – 12. It is an ideal product for self-emulsifying bath oils. It is 100% natural, halal, kosher, vegan, available in RSPO MB certified quality and exclusively produced in Germany.

IMWITOR® liteMULS is a yellowish viscous liquid with a typical odor.

APPLICATION

IMWITOR® liteMULS is able to form microemulsions with many different types of oils. The dilution of the microemulsion results in an emulsion concentrate with a small and narrow particle size distribution. This makes IMWITOR® liteMULS an ideal choice as emulsifier for the production of wet wipes without rotor stator equipment/high shear forces.

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| <input checked="" type="checkbox"/> Skin Care | <input checked="" type="checkbox"/> Body Care | <input checked="" type="checkbox"/> Sun Care | <input 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 type="checkbox"/> Beard Care | <input type="checkbox"/> Deodorants | <input type="checkbox"/> Intimate Hygiene |

IMWITOR® liteMULS is soluble in polar oils and can be used in self-emulsifying bath or skin oils.

FORMULATION HINTS

- Recommended concentration of **IMWITOR® liteMULS**: 0.5 – 2%
 - Self-emulsifying products: combine IMWITOR® liteMULS with IMWITOR® PG3 C10 (Polyglyceryl-3 Caprate) for instant blooming
 - Lotion: add a viscosity building co-emulsifier like IMWITOR® 900 K (Glyceryl Stearate)
- Applicable for cold and hot processes
- Hot/hot process: heat the oil phase to 65 – 80°C and the water phase to 70 – 80°C. Either pour the water phase in the oil phase or vice versa, one-pot-system is possible as well. Homogenize and cool the emulsion to room temperature under stirring. Adjust pH value, if necessary, homogenize again.
- Add IMWITOR® liteMULS to the oil phase
- For oil phases from 5 to 40%
- The use of 0.2 - 0.3% Xanthan Gum is recommended for elevated heat stability
- Recommended pH value: pH 4.5 – 7.0; pH value can drop over time and stays stable once it has reached its final level



FORMULATION GUIDE

LOTION FOR STRESSED HAIR NO. 782

This lotion tames stubborn hair and leaves it silky and smooth. Thanks to the combination of IMWITOR® liteMULS and IMWITOR® 900 K, you can create a viscosity that works for your packaging. SOFTISAN® conditionHAIR conditions your hair and binds MIGLYOL® Coco 810 and MIGLYOL® T-C7 for better wet- and dry combability and a glossy shine.

Trade Name	INCI	%
PHASE A IMWITOR® liteMULS	Glyceryl Citrate/Lactate/Linoleate/Oleate (and) Polyglyceryl-3 Caprate (and) Polyglyceryl-4 Caprate (and) Glyceryl Caprylate	1.0
IMWITOR® 900 K	Glyceryl Stearate	2.0
MIGLYOL® Coco 810	Coco-Caprylate/Caprate	2.0
MIGLYOL® T-C7	Triheptanoin	2.0
SOFTISAN® conditionHAIR	PCA Glyceryl Oleate	0.7
Nafol® 1618	Cetearyl Alcohol	3.0
Coconut Oil	Cocos Nucifera (Coconut) Oil	1.0
PHASE B Water demin.	Aqua	82.0
Glycerin	Glycerin	5.0
Cosphaderm® CA natural	Cinnamic Acid	0.2
Cosphaderm® LA-T	Levulinic Acid (and) Glycerin (and) Sodium Levulinate (and) Aqua	0.8
PHASE C Cosphaderm® X 34	Xanthan Gum	0.3

PREPARATION:

1. Prepare phase B under stirring and increase pH with NaOH to pH 7.
2. Heat phases A and B separately to approx. 80°C. When Cosphaderm® CA natural is solved, add phase C to phase B, than add phase A to phase B/C and homogenize.
3. Cool with gentle stirring to below 30°C.
4. If necessary, adjust the pH value to pH 5.5.

SUPPLIERS:

IOI Oleo GmbH: IMWITOR®, MIGLYOL®, SOFTISAN®
 Sasol: Nafol®
 Cosphatec: Cosphaderm®



HANDLING AND SHELF LIFE

The shelf life for IMWITOR® liteMULS 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

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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