



Technical Data Sheet

IMWITOR[®] 948

INCI: Glyceryl Oleate

- ❖ **NON-IONIC CO-EMULSIFIER**
- ❖ **SKIN CONDITIONING**
- ❖ **MOISTURISING**



IOI OLEOCHEMICAL

Personal Care



1. DESCRIPTION

IMWITOR® 948 is a non-ionic, polar co-emulsifier for O/W emulsions with an estimated HLB of 3. It is 100% natural, available in RSPO MB certified grade, vegan and produced exclusively in Germany.

It is produced by the esterification of plant-derived glycerol with vegetable sourced fatty acids, chiefly oleic acid, consisting mainly of the monooleate. IMWITOR® 948 is an amber-coloured, oily liquid, which can partly solidify at room temperature and has a characteristic odour. It contains an antioxidant (tocopherol).

	Value	Unit
Oleic acid	min. 60.0	%
Monoglycerides	32.0 – 52.0	%
Diglycerides	30.0 – 50.0	%
Triglycerides	5.0 – 20.0	%

2. APPLICATION

IMWITOR® 948 is used in formulations as an emollient and as a co-emulsifying agent for water-in-oil emulsions. It is also a stabiliser for oil-in-water emulsions. Glyceryl oleate improves the penetration of emollients into the *stratum corneum* and enhances skin elasticity. Used in body washes, IMWITOR® 948 reduces skin roughness caused by surfactants. Glyceryl oleate is also part of human hair lipids. Once adsorbed by the hair, it reduces brittleness, thus decreases the combing force of wet hair and enhances gloss.

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

IMWITOR® 948 is soluble in all fats and oils and swells in water. In excess of water, a gel is formed (highly ordered cubic phase) which can sustain the release of water-soluble ingredients.

FORMULATION HINTS

- Recommended concentration of IMWITOR® 948: 1 – 3 %
- Applicable for cold/cold, pre-emulsions, hot/cold/cold and hot/hot processes
- Add IMWITOR® 948 to the oil phase. Heat both oil and water phase to 70 – 80°C. Either pour the water phase into the oil phase or vice versa, one-pot-systems are also possible. Mix both phases, then homogenise for 1 – 3 minutes. Cool the emulsion to room temperature under stirring and adjust pH value, if necessary, homogenise again.
- Recommended pH value: pH 4.0 – 7.0





3. FORMULATION GUIDE

PROTECTIVE CREAM FOR FROSTY TEMPERATURES

No. 741

This cream nourishes your skin, no matter how cold it is outside. Due to the combination of IMWITOR® 600 and IMWITOR® 948, this protective cream stays soft and is easy to apply.

Phase A		%
IMWITOR® 600 ¹	Polyglyceryl-3 Polyricinoleate	3.0
IMWITOR® 948 ¹	Glyceryl Oleate	1.0
SOFTIGEN®PURA ¹	Olus Oil (EU)/ Vegetable Oil (US)	12.0
SOFTISAN® 649 ¹	Bis-Diglyceryl Polyacyladipate-2	2.0
MIGLYOL® Coco 810 ¹	Coco-Caprylate/Caprates	5.0
WITARIX® MCT 60/40 ¹	Caprylic/Capric Triglyceride	5.0
Shea Butter	Butyrospermum Parkii (Shea) Butter	3.0
Argan Oil	Argania Spinosa (Argan) Kernel Oil	1.0
Beeswax	Beeswax	0.5
<hr/>		
Phase B		
SOFTISAN® GC 8 ¹	Glyceryl Caprylate	0.4
Zinc Sulfate Heptahydrate	Zinc Sulfate	1.2
Magnesium Sulfate x H ₂ O	Magnesium Sulfate	2.0
Aqua dem.	Aqua	58.4
Glycerin 99.5	Glycerine	5.0
<hr/>		
Phase C		
Tocopherol	Tocopherol	0.5
Fragrance	Parfum (EU)/ Fragrance (US)	q.s.

Procedure:

- Heat phases A and B separately to approx. 75 – 80°C. Add phase B to phase A in small amounts with stirring.
- Homogenise and cool with gentle stirring to approx. 40 °C. Add phase C and homogenise again.

Supplier References:

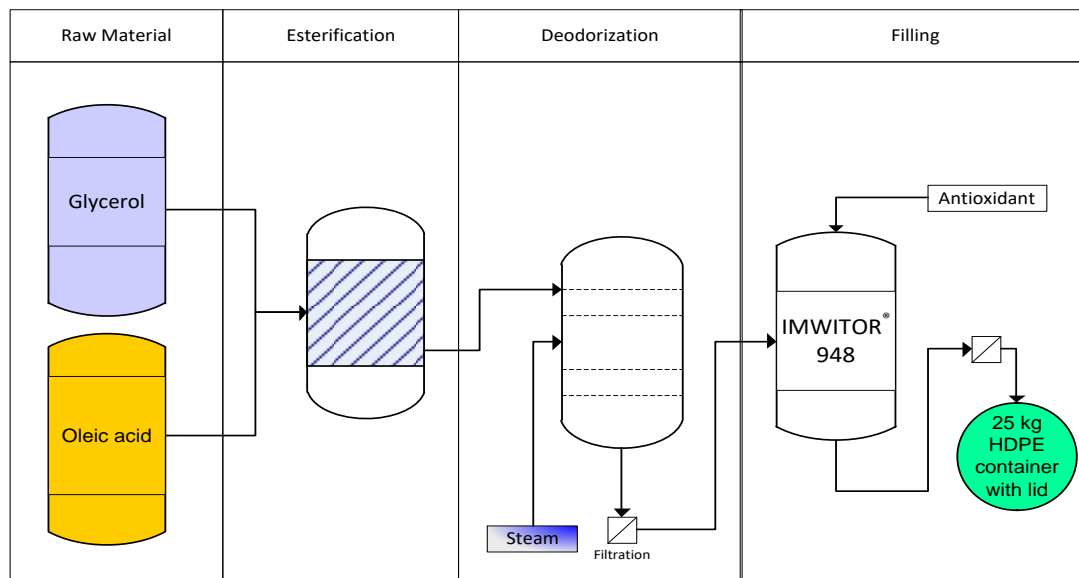
¹IOI Oleo GmbH



IOI OLEOCHEMICAL



4. FLOW CHART



5. HANDLING AND SHELF LIFE

Long-term storage: the shelf life for IMWITOR® 948 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

Hobbock with 25 kg; 600 kg on CP3 pallet





7. REGULATORY STATEMENT

	IMWITOR® 948
HS Code	38249955
CAS No.	91744-20-6
EU EINECS EC No.	294-582-5
REACH Status	01-2119498299-16-0009
Country of Origin	Germany
USA	registered for import and use in cosmetics
USA GHS Compliance	No
Australia AICS CAS No.	/
Canada DSL DSL/NDSL	DSL
Canada WHMIS 2015 Compliance	/
China IECIC Standard Chinese Name & Index	甘油油酸酯 02494
Japan Ingredient/Labeling name	オレイン酸グリセリル
Korean INCI name	글리세릴올리에이트
Halal	Yes
Kosher	No

Please contact your distribution partner in your country or contact us directly at personalcare@ioioleo.de
Hamburg, Germany | +49 40 28 00 31 – 0 | www.ioioleo.de

All information and further technical advice (“Information”) are presented in good faith and believed to be correct and based on IOI Oleo GmbH (including all group companies) present technical knowledge. IOI Oleo GmbH makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. As far as legally possible IOI Oleo GmbH will not be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information. IOI Oleo GmbH reserves the right to make any changes according to technological progress or further developments in its sole discretion.

IN PARTICULAR, IOI OLEO GMBH MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, THAT THE PRODUCTS TO WHICH THE INFORMATION REFERS MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS, OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS. IN NO CASE SHALL THE INFORMATION BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE.

07.2019/V02



IOI OLEOCHEMICAL