



IOI OLEOCHEMICAL

PERSONAL CARE

TECHNICAL DATA SHEET

IMWITOR® 948

INCI: Glyceryl Oleate



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



DESCRIPTION

IMWITOR® 948 is a non-ionic, polar co-emulsifier for O/W emulsions with an estimated HLB of 3. It is 100% natural, vegan, halal, RSPO MB quality 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-colored, oily liquid, which can partly solidify at room temperature and has a characteristic odor. 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	%

APPLICATION

IMWITOR® 948 is used as emollient and co-emulsifier for water-in-oil emulsions. It is also a stabilizer 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.

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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 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
- Hot process: 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. Homogenize and cool the emulsion to room temperature under stirring. Adjust pH value, if necessary, homogenize again.
- Recommended pH value: pH 4.0 – 7.0



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.

	Trade Name	INCI	%
PHASE A	IMWITOR® 600	Polyglyceryl-3 Polyricinoleate	3.0
	IMWITOR® 948	Glyceryl Oleate	1.0
	SOFTIGEN®PURA	Olus Oil (EU)/ Vegetable Oil (US)	12.0
	SOFTISAN® 649	Bis-Diglyceryl Polyacyladipate-2	2.0
	MIGLYOL® Coco 810	Coco-Caprylate/Caprates	5.0
	WITARIX® MCT 60/40	Caprylic/Capric Triglyceride	5.0
	Shea Butter	Butyrospermum Parkii (Shea) Butter	3.0
	Argan Oil	Argania Spinosa (Argan) Kernel Oil	1.0
	Beeswax	0.5	
PHASE B	SOFTISAN® GC8	Glyceryl Caprylate	0.4
	Zinc Sulfate Heptahydrate	Zinc Sulfate	1.2
	Magnesium Sulfate x H ₂ O	Magnesium Sulfate	2.0
	Water demin.	Aqua	58.4
	Glycerin	Glycerin	5.0
PHASE C	Tocopherol	Tocopherol	0.5

PREPARATION:

1. Heat phases A and B to 75 – 80°C.
2. Add phase B to phase A in small amounts with stirring.
3. Homogenize and cool with gentle stirring to approx. 40 °C.
4. Add phase C and homogenize again.

SUPPLIER:

IOI Oleo GmbH: IMWITOR®, MIGLYOL®, SOFTIGEN®, WITARIX®



HANDLING AND SHELF LIFE

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.

PACKAGING UNITS

Hobbock with 25 kg; 600 kg on CP3 pallet

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

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