



IOI OLEOCHEMICAL

PERSONAL CARE

TECHNICAL DATA SHEET

IMWITOR® 375

INCI: Glyceryl Citrate/Lactate/Linoleate/Oleate



THE FAST & LIGHT NATURAL EMULSIFIER

Versatile, natural anionic liquid emulsifier offering comfortable fast
absorbing textures through cost & time-saving processes



DESCRIPTION

IMWITOR® 375 is a natural-based anionic emulsifier for O/W emulsions offering feather-light sensory for a variety of textures and applications.

It presents unique benefits for planet-conscious consumers, creative formulators, but also time- and cost-conscious manufacturers. With a safe food-approved profile from natural sources based on sunflower, it helps to speed up developments and processes for a final comfortable light touch, from sprays to creams.

IMWITOR® 375 has an estimated HLB of 10–12. It is free from palm derivatives, 100% natural based, vegan, halal, kosher and produced exclusively in Germany. The unsaturated fatty acids of this emulsifier (also known as omega acids) are essential for healthy skin and occur naturally in the dermis in the form of ceramides and lecithin's. Many of the characteristic properties of these natural constituents of the human skin's barrier system can be ascribed particularly to the high content of linoleic acid. The lamellar networks and liposomes formed by these emulsifiers are almost identical to lecithin structures formed in water.

It is a partially neutralized ester of mono and diglycerides of unsaturated edible fatty acids with citric acid and lactic acid. **IMWITOR® 375** is a yellowish liquid of viscous consistency, similar to honey, and has a typical odor and a neutral taste.

APPLICATION

IMWITOR® 375 is a liquid, food-approved O/W emulsifier compatible with mucosa. It gives a long-lasting but non-sticky skin feeling. The natural emulsifier does not build up any viscosity; this makes it suitable for both lotions and body butters when used in combination with thickeners.

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

IMWITOR® 375 is oil-soluble and can be used in self-emulsifying bath or skin oils. It is readily soluble in MCTs and fatty oils, slightly soluble in ethanol and also easily dispersible in water.

FORMULATION HINTS

- Recommended concentration of **IMWITOR® 375**: 1 – 3%
- Applicable for cold/cold, pre-emulsions, hot/cold and hot/hot processes (liquid at 20°C)
- IMWITOR® 375 can be used to formulate sprays in combination with non-ionic co-emulsifiers
- For creams, a co-emulsifier like Glyceryl Stearate (e.g. IMWITOR® 900 K), a consistency enhancer (e.g. DYNASAN® types or Cetearyl Alcohol) or a thickener like Xanthan Gum are suggested.
- Add IMWITOR® 375 to the oil phase
- Hot/hot process: heat both oil and water phase to 65 – 80°C. Either pour the oil phase into the water phase or vice versa; one-pot-systems are also possible. Homogenize and let allow to cool down to room temperature under stirring. Adjust pH value, if necessary, homogenize again.



- Cold/cold process: please ensure a homogeneous droplet distribution by adjusting the homogenization time and speed accordingly.
- For oil phases from 5 to 35%
- Recommended pH value: pH 4.5 – 10.0; pH value can drop over time and stays stable once it has reached its final level.
- The use of antioxidants is recommended due to the presence of unsaturated ingredients.
- Due to polar citric acid esters it might happen that there is slight crystallization, which does not have any influence on the performance nor application. To avoid crystallization, IMWITOR® 375 can be heated or homogenized prior use.

FORMULATION GUIDE

BLOOM IT! NATURAL SHOWER OIL TO MILK NO. 849

IMWITOR® 375 is a versatile and natural emulsifier that leads to the blooming effect of this shower oil to milk product. IMWITOR® PG3 C10 acts in synergy with IMWITOR® 375 to improve the cleansing properties and the shower oil to milk effect, while leading to enhanced refatting properties. SOFTISAN® GC8 acts as a co-surfactant and protects the product from germs. MIGLYOL® Coco 810 is a fast spreading emollient, providing a caring skin feel during the shower and a light, silky and powdery feel after the shower

	Trade Name	INCI	%
PHASE A	IMWITOR® 375	Glyceryl Citrate/Lactate/Linoleate/Oleate	8.0
	IMWITOR® PG3 C10	Polyglyceryl-3 Caprate	4.0
	SOFTISAN® GC8	Glyceryl Caprylate	4.0
	MIGLYOL® Coco 810	Coco-Caprylate/Caprate	42.0
	Sunflower Oil	Helianthus Annuus (Sunflower) Seed Oil	40.0
	Tocopherol	Tocopherol	1.0
	Nivesse DF Extra 0797442	Parfum (EU)/ Fragrance (US)	1.0

PREPARATION:

1. Weigh out the ingredients one by one and mix until a homogeneous transparent solution is obtained.

SUPPLIERS:

IOI Oleo: IMWITOR®, MIGLYOL®, SOFTISAN®
Bell: Parfum



NAILED IT! POLISH REMOVER FOR WATER BASED LACQUERS NO. 839

Painting nails and trying every possible color is a thing most teens and women love to do. Just by a new color, you can not only change the outfit, but also your mood. Nowadays it is not only about fun and color, but also about the environment and health. The trend goes to natural and water-based nail polishes. Great for application and health but unfortunately difficult to remove. The combination of IMWITOR® 375 as solubilizer and the two very polar oils MIGLYOL® T-C7 and WITARIX® MCT C8 ensures a healthy yet effective removal of the water-based lacquers while caring for your skin and nails. Easy and healthy to use for all ages.

	Trade Name	INCI	%
PHASE A	IMWITOR® 375	Glyceryl Citrate/Lactate/Linoleate/Oleate	5.0
	MIGLYOL® T-C7	Triheptanoin	31.5
	WITARIX® MCT C8	Tricaprylin	32.0
	Ethanol	Ethanol	30.0
	Nivesse DF Extra 0797442	Parfum (EU)/ Fragrance (US)	1.0
	Tocopherol	Tocopherol	0.5

PREPARATION:

1. Weigh out the ingredients one by one and mix until a homogeneous transparent solution is obtained.

SUPPLIERS:

IOI Oleo: IMWITOR®, MIGLYOL®, WITARIX®
Bell: Parfum

HANDLING AND SHELF LIFE

The shelf life for IMWITOR® 375 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

In particular, IOI Oleo GmbH makes no representations or warranties, neither express nor 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 hereunder with respect to the information or the products to which the information refers. In no case shall the information be considered a part of our Terms and Conditions of Sale.

