



IOI OLEOCHEMICAL

PERSONAL CARE

TECHNICAL DATA SHEET

IMWITOR® GMIS

INCI: Glyceryl Isostearate



- **CO-EMULSIFIER**
- **SKIN-CONDITIONING AGENT**
- **FILM FORMER**



DESCRIPTION

IMWITOR® GMIS is a non-ionic co-emulsifier for both O/W- and W/O emulsions with an estimated HLB of 4. It is free from palm oil/palm kernel oil, 100% natural, vegan, halal and produced exclusively in Germany.

It is a partial glyceride ester of glycerol and isostearic acid. IMWITOR® GMIS is a slightly yellowish turbid liquid of viscous consistency, similar to honey, having a typical odor. Total mono-ester amount is 45.0 – 55.0%.

APPLICATION

IMWITOR® GMIS functions as co-emulsifier, emollient, skin-conditioning agent, suspending/dispersing agent and as film former. Due to its viscosity, it allows cold/cold production and helps thereby to simplify processing. In comparison with its straight-chain analogue, it produces less soaping.

<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 type="checkbox"/> Hair Care	<input type="checkbox"/> Bath Care	<input checked="" type="checkbox"/> Wet Wipes
<input type="checkbox"/> Self-Tanning	<input checked="" type="checkbox"/> Beard Care	<input checked="" type="checkbox"/> Deodorants	<input checked="" type="checkbox"/> Intimate Hygiene

IMWITOR® GMIS is soluble in all fats and oils, dispersible in glycol, triols and polyols and insoluble in water.

FORMULATION HINTS

- Recommend concentration of **IMWITOR® GMIS**: 1 - 3%
- Can be combined with several emulsifiers e.g. IMWITOR® 375 (Glyceryl Citrate/Lactate/Linoleate/Oleate)
- Applicable for cold and hot processes
- Add IMWITOR® GMIS to the oil phase
- Hot process: Heat the oil and 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 let allow to cool down under stirring. Adjust pH value, if necessary, homogenize again.
- Recommended pH value: pH 4.0 – 7.0
- Microemulsions like transparent deodorant roll-ons can be achieved by combining IMWITOR® GMIS with e.g. Isoceteth-20, Laureth-7 Citrate or PEG-150 Distearate.
- IMWITOR® GMIS can separate in a crystalline and a liquid phase over storage at ambient temperatures. This does not indicate a loss in quality. In order to obtain a homogeneous product, it is recommended to **melt the complete container (at approx. 50°C) and stir before use.**



HANDLING AND SHELF LIFE

The shelf life for IMWITOR® GMIS 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.

Remark: Phase separation can occur and does not affect the properties of IMWITOR® GMIS. Please stir before use and melt the complete container (at approx. 50°C).

PACKAGING UNITS

Multitainer with 25 kg, 600 kg on CP3 pallet

Drum with 180 kg, 760 kg on CP3 pallet

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

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