



Technical Data Sheet

IMWITOR[®] GMIS

INCI: Glyceryl Isostearate

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



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Personal Care



1. 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 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 %. IMWITOR® GMIS can separate in a crystalline phase 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.

2. 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.

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|---|--|--|--|
| <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.

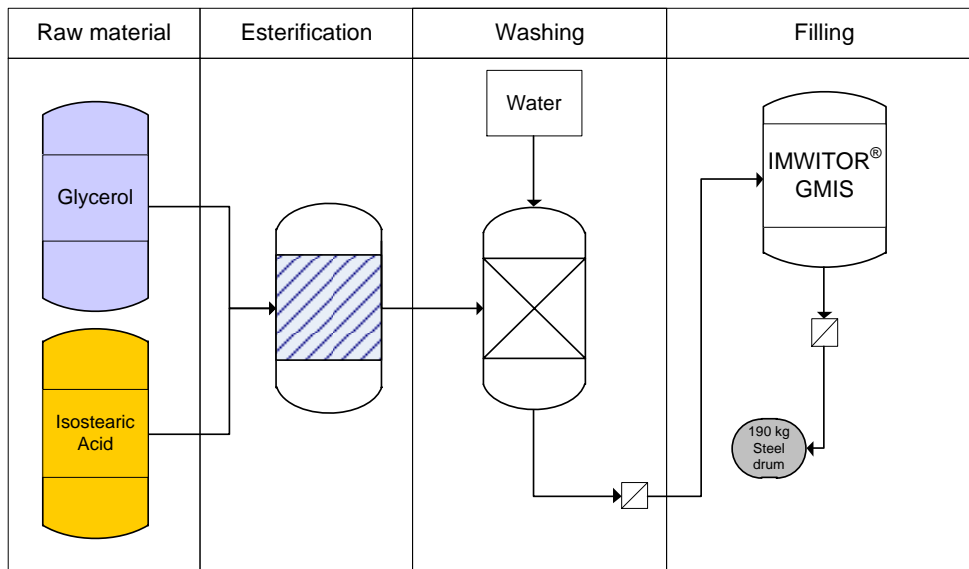
FORMULATION HINTS

- Stir before use.
- Recommend concentration of IMWITOR® GMIS: 1 - 3 %
 - Can be combined with several emulsifiers e.g. IMWITOR® 375
- Applicable for cold/cold and hot/hot processes
- Add IMWITOR® GMIS to the oil phase. We recommend heating 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. Mix both phases, then homogenize for 1 – 3 minutes. Cool the emulsion to room temperature under stirring and 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.





3. FLOW CHART



4. HANDLING AND SHELF LIFE

Long-term storage: 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).

5. PACKAGING UNITS

Multitainer with 25 kg, 600 kg on CP3 pallet

Drum with 190 kg, 760 kg on CP3 pallet





6. REGULATORY STATEMENT

	IMWITOR® GMIS
HS Code	38249955
CAS No.	66085-00-5
EU EINECS EC No.	266-124-4
REACH Status	01-2120060296-57-0005
Country of Origin	Germany
USA	registered for import and use in cosmetics
USA-GHS Compliance	No
Australia AICS CAS No.	66085-00-5
Canada DSL DSL/NDSL	DSL
Canada WHMIS 2015 Compliance	No
China IECIC Standard Chinese Name & Index	甘油异硬脂酸酯 / 02488
Japan Ingredient/ Labelling name	イソステアリン酸グリセリル
Korean INCI name	
Halal	No
Kosher	No

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