



IOI OLEOCHEMICAL

PERSONAL CARE

# TECHNICAL DATA SHEET

# SOFTIGEN<sup>®</sup> 701

INCI: Glyceryl Ricinoleate



- SKIN CONDITIONING
- SKIN-PROTECTIVE AGENT
- MOISTURISING



## DESCRIPTION

**SOFTIGEN® 701** is a non-ionic, polar multifunctional ingredient that is used as refatting agent in rinse-off applications and emollient with improved gliding in leave-on products and color cosmetics. It is well tolerated by skin and mucosa. It is vegan, halal, palm-free and manufactured exclusively in Germany.

The partial glyceride is produced by esterification of plant-derived glycerol with castor oil. SOFTIGEN® 701 is a yellowish to amber-colored, pasty to liquid product with a characteristic odor that turns into a clear liquid of oily consistency with a viscosity of approx. 500 – 600 mPas at 35°C.

To avoid oxidation during storage, SOFTIGEN® 701 contains an antioxidant (OxyneX® 2004).

## APPLICATION

**SOFTIGEN® 701** is used in skin care formulations as an emollient to improve the skin-protective properties. The availability of the free hydroxyl groups of ricinoleic acid and the surface activity as a partial glyceride, make SOFTIGEN® 701 an effective skin-protective agent.

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

**SOFTIGEN® 701** is soluble in all fats and oils and dispersible in water.

## FORMULATION HINTS

- Recommended concentration of **SOFTIGEN® 701**:
  - O/W emulsions: 0.5 – 4%
  - W/O emulsions: 1 – 3%
  - Refatting and conditioning agent: 0.5 - 1%
- Applicable for cold and hot processes
- Add SOFTIGEN® 701 to the oil phase or disperse it in the water phase
- Recommended pH value: pH 4.0 – 7.5



# FORMULATION GUIDE

## PROTECTIVE HAND CREAM NO. 706

Rich creams are often not well absorbed by the skin and leave an oily, unpleasant film. Well, this is not happening with the Protective Hand Cream. Thanks to the ingenious combination of IMWITOR® 375 and IMWITOR® 900 K it absorbs quickly and is nevertheless very rich, thanks to the use of SOFTISAN® 142, SOFTISAN® 378 and MIGLYOL® 829. SOFTIGEN® 701 ensures particularly good distribution pleasure. What are you waiting for? Care for your hands, as they need it.

	Trade Name	INCI	%
<b>PHASE A</b>	<b>IMWITOR® 375</b>	<b>Glyceryl Citrate/Lactate/Linoleate/Oleate</b>	<b>3.0</b>
	<b>IMWITOR® 900 K</b>	<b>Glyceryl Stearate</b>	<b>3.0</b>
	<b>MIGLYOL® T-C7</b>	<b>Triheptanoin</b>	<b>3.0</b>
	<b>MIGLYOL® PPG 810</b>	<b>Propylene Glycol Dicaprylate/Dicaprate</b>	<b>3.0</b>
	<b>MIGLYOL® 829</b>	<b>Caprylic/Capric/Succinic Triglyceride</b>	<b>2.0</b>
	<b>SOFTIGEN® 701</b>	<b>Glyceryl Ricinoleate</b>	<b>1.0</b>
	<b>SOFTISAN® 142</b>	<b>Hydrogenated Coco-Glycerides</b>	<b>3.0</b>
	<b>SOFTISAN® 378</b>	<b>Caprylic/Capric/Myristic/Stearic Triglyceride</b>	<b>3.0</b>
	Nafol® 1822 C	Behenyl Alcohol	3.0
<b>PHASE B</b>	Glycerin	Glycerin	5.0
	Keltrol® CG-F	Xanthan Gum	0.3
	Preservative		q.s.
	Water demin.	Aqua	64.6
<b>PHASE C</b>	Tocopherol	Tocopherol	0.5
	Fragrance	Parfum (EU)/Fragrance (US)	q.s.
<b>PHASE D</b>	RapiThix A-60 polymer	Sodium Polyacrylate (and) Hydrogenated Polydecene (and) Trideceth-6	0.6

### PREPARATION:

1. Heat phases A and B to approx. 80°C, homogenize phase B, add phase A under stirring and homogenize again.
2. Cool with gentle stirring to approx. 30 °C and add phase C under homogenization.
3. Add phase D with stirring and adjust pH value to 6.0 - 6.5.

### SUPPLIERS:

**IOI Oleo GmbH: IMWITOR®, MIGLYOL®, SOFTIGEN®, SOFTISAN®**  
 Sasol: Nafol®  
 CP Kelco: Keltrol®  
 Ashland: RapiThix



**SHEER INNOCENCE LIPSTICK NO. 810**

This sheer lipstick gives your lips everything they could ever ask for. A subtle lip tint combined with great moisturizing properties due to the SOFTISAN® conditionHAIR. SOFTISAN® 378 positively influences the melting behavior on the lips and SOFTIGEN® 701 leads to a better glideability of the lipstick.

Trade Name	INCI	%
<b>PHASE A</b>		
<b>MIGLYOL® DO</b>	<b>Decyl Oleate</b>	<b>12.60</b>
<b>WITARIX® MCT C8 pure coconut</b>	<b>Tricaprylin</b>	<b>10.00</b>
<b>MIGLYOL® 829 ECO</b>	<b>Caprylic/Capric/Succinic Triglyceride</b>	<b>10.00</b>
<b>SOFTISAN® 378</b>	<b>Caprylic/Capric/Myristic/Stearic Triglyceride</b>	<b>6.00</b>
<b>IMWITOR® PG3 DIS</b>	<b>Polyglyceryl-3 Diisostearate</b>	<b>10.00</b>
<b>SOFTISAN® conditionHAIR</b>	<b>PCA Glyceryl Oleate</b>	<b>2.00</b>
<b>SOFTISAN® 649</b>	<b>Bis-Diglyceryl Polyacyladipate-2</b>	<b>0.50</b>
<b>SOFTIGEN® 701</b>	<b>Glyceryl Ricinoleate</b>	<b>5.00</b>
6607L Sunflower Seed Wax	Helianthus Annuus (Sunflower) Seed Cera (and) Ascorbyl Palmitate (and) Tocopherol	8.00
2039L Candelilla Wax	Euphorbia Cerifera (Candelilla) Cera	14.00
Castor Oil	Ricinus Communis (Castor) Seed Oil	20.00
Cosphaderm® T-70 NON GMO ECO	Tocopherol (and) Helianthus Annuus (Sunflower) Seed Oil	0.50
<b>PHASE B</b>		
Fiesta Copper Coral FCL-CCO	Synthetic Fluorphlogopite (and) CI 77981 (and) CI 16035 (and) CI 77861	2.07
Ecoperse Red 6 R6L-D94	CI 15850:2 (and) Octyldodecyl Oleate	1.10
Ecoperse White W-47051	CI 77891 (and) Octyldodecyl Oleate	1.47
Ecoperse Yellow 5 Y5L-69002	FD&C Yellow 5 Al Lake (and) Octyldodecyl Oleate	0.27
Majestic Rhubarb MCM-RIO4	Mica (and) CI 77492	1.08
6800026 Raspberry Lips	Parfum (EU)/Fragrance (US)	0.40

**PREPARATION:**

- Mix and heat all materials to 80°C. If possible, disperse the powder first in WITARIX® MCT C8.
- Add the perfume immediately before filling the lipstick into the molds.

**SUPPLIERS:**

**IOI Oleo GmbH: IMWITOR®, MIGLYOL®, SOFTIGEN®, SOFTISAN®, WITARIX®**  
 KahlWax: Sunflower Seed Wax, Candelilla Wax  
 Cosphatec: Cosphaderm®  
 Sandream impact: Fiesta Copper Coral, Ecoperse, Majestic, Rhubarb  
 Bell: Parfum



## HANDLING AND SHELF LIFE

The shelf life for SOFTIGEN® 701 is at least twelve 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

Multitainer with 25 kg, 600 kg on CP3 pallet  
Drum with 190 kg, 760 kg on CP3 pallet

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