



# Technical Data Sheet

**SOFTIGEN<sup>®</sup> 701**

INCI: Glyceryl Ricinoleate

- ❖ SKIN CONDITIONING
- ❖ SKIN-PROTECTIVE AGENT
- ❖ MOISTURISING



IOI OLEOCHEMICAL

Personal Care



## 1. 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 colour cosmetics. It is well tolerated by skin and mucosa. It is vegan, available in RSPO MB certified quality 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-coloured, pasty to liquid product with a characteristic odour 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).

## 2. 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.

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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"/> Colour 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.
- Recommended pH value: pH 4 – 7.5





### 3. FORMULATION GUIDE

#### PROTECTIVE HAND CREAM

No. 706

Rich creams often 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.

Phase A			%
IMWITOR® 375 <sup>1</sup>	Glyceryl Citrate/Lactate/Oleate/Linoleate		3.0
IMWITOR® 900 K <sup>1</sup>	Glyceryl Stearate		3.0
MIGLYOL® T-C7 <sup>1</sup>	Triheptanoin		3.0
MIGLYOL® PPG 810 <sup>1</sup>	Propylene Glycol Dicaprylate/Dicaprate		3.0
MIGLYOL® 829 <sup>1</sup>	Caprylic/Capric/Succinic Triglyceride		2.0
SOFTIGEN® 701 <sup>1</sup>	Glyceryl Ricinoleate		1.0
SOFTISAN® 142 <sup>1</sup>	Hydrogenated Coco-Glycerides		3.0
SOFTISAN® 378 <sup>1</sup>	Caprylic/Capric/Myristic/Stearic Triglyceride		3.0
Nafol® 1822 C <sup>2</sup>	Behenyl Alcohol		3.0
<b>Phase B</b>			
Glycerin 99.5	Glycerin		5.0
Keltrol® CG-F <sup>3</sup>	Xanthan Gum		0.3
Preservative			q.s.
Aqua dem.	Aqua		ad. 100
<b>Phase C</b>			
Tocopherol	Tocopherol		0.5
Fragrance	Parfum (EU) /Fragrance (US)		5.0
<b>Phase C</b>			
RapiThix A-60 polymer <sup>4</sup>	Sodium Polyacrylate (and) Hydrogenated Polydecene (and) Trideceth-6		0.6
<b>Phase E</b>			
Sodium Hydroxide 10% in water	Sodium Hydroxide		q.s.

#### Procedure:

- Heat phases A and B to approx. 80°C, homogenise phase B, add phase A under stirring and homogenise again.
- Cool with gentle stirring to approx. 30 °C and add phase C under homogenisation.
- Add phase D with stirring and adjust pH value with phase E to 6.0-6.5.

#### Supplier References:

<sup>1</sup>IOI Oleo GmbH, <sup>2</sup>Sasol, <sup>3</sup>CP Kelco, <sup>4</sup>Ashland



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## SHEER INNOCENCE LIPSTICK

No. 810

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

Phase A		%
MIGLYOL® DO <sup>1</sup>	Decyl Oleate	12.60
WITARIX® MCT C8 pure coconut <sup>1</sup>	Tricaprylin	10.0
MIGLYOL® 829 ECO <sup>1</sup>	Caprylic/Capric/Succinic Triglyceride	10.0
SOFTISAN® 378 <sup>1</sup>	Caprylic/Capric/Myristic/Stearic Triglyceride	6.0
IMWITOR® PG3 DIS <sup>1</sup>	Polyglyceryl-3 Diisostearate	10.0
SOFTISAN® conditionHAIR <sup>1</sup>	PCA Glyceryl Oleate	2.0
SOFTISAN® 649 <sup>1</sup>	Bis-Diglyceryl Polyacyladipate-2	0.5
SOFTIGAN® 701 <sup>1</sup>	Glyceryl Ricinoleate	5.0
Kahlwax 6607L Sunflower Seed Wax <sup>2</sup>	Helianthus Annuus (Sunflower) Seed Cera (and) Ascorbyl Palmitate (and) Tocopherol	8.0
Kahlwax 2039L Candelilla Wax <sup>2</sup>	Euphorbia Cerifera (Candelilla) Cera	14.0
Castor Oil	Ricinus Communis (Castor) Seed Oil	20.0
Cosphaderm® T-70 NON GMO ECO <sup>3</sup>	Tocopherol (and) Helianthus Annuus (Sunflower) Seed Oil	0.50
<b>Phase B</b>		
Fiesta Copper Coral FCL-CCO <sup>4</sup>	Synthetic Fluorophlogopite (and) Titanium Dioxide (CI 77981) (and) Red 40 (CI 16035) (and) Tin Oxide (CI 77861)	2.07
Ecoperse Red 6 R6L-D94 <sup>4</sup>	Red 6 Ba Lake (CI 15850:2) (and) Octyldodecyl Oleate	1.10
Ecoperse White W-47051 <sup>4</sup>	Titanium Dioxide (CI 77891) (and) Octyldodecyl Oleate	1.47
Ecoperse Yellow 5 Y5L-69002 <sup>4</sup>	FD&C Yellow 5 Al Lake (and) Octyldodecyl Oleate	0.27
Majestic Rhubarb MCM-RIO <sup>4</sup>	Mica (and) Iron Oxides Red (CI 77492)	1.08
6800026 Raspberry Lips <sup>5</sup>	Parfum (EU)/Fragrance (US)	0.40

### Procedure:

- 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.

### Supplier References:

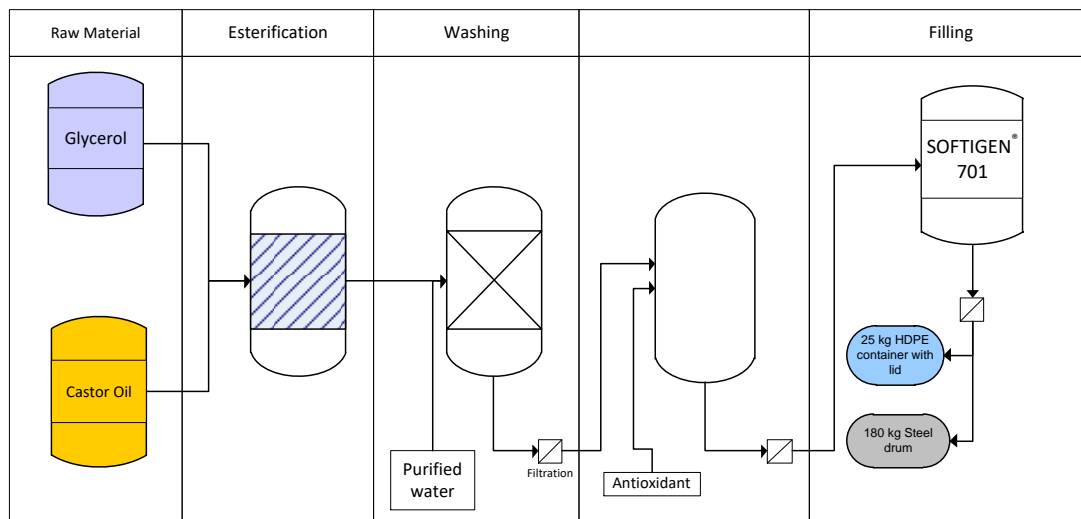
<sup>1</sup> IOI Oleo GmbH, <sup>2</sup> KahlWax, <sup>3</sup> Cosphatec, <sup>4</sup> Sandream impact, <sup>5</sup> Bell



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#### 4. FLOW CHART



#### 5. HANDLING AND SHELF LIFE

Long-term storage: 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.

#### 6. PACKAGING UNITS

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





## 7. REGULATORY STATEMENT

	<b>SOFTIGEN® 701</b>
<b>HS Code</b>	38249955
<b>CAS No.</b>	68459-67-6
<b>EU EINECS EC No.</b>	270-616-4
<b>REACH Status</b>	01-2120755779-33-0000
<b>Country of Origin</b>	Germany
<b>USA</b>	registered for import and use in cosmetics
<b>USA-GHS Compliance</b>	Yes
<b>Australia AICS CAS No.</b>	68459-67-6
<b>Canada DSL DSL/NDSL</b>	NDSL & Revised ICL
<b>Canada WHMIS 2015 Compliance</b>	Yes
<b>China IECIC Standard Chinese Name &amp; Index</b>	甘油蓖麻醇酸酯 02426
<b>Japan Ingredient/Labelling name</b>	リシノレイン酸グリセリル
<b>Korean INCI name</b>	글리세릴리시놀리에이트
<b>Halal</b>	Yes
<b>Kosher</b>	No

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