



Technical Data Sheet

MIGLYOL[®] Gel B, T, 840 B

- ❖ CONSISTENCY REGULATORS
- ❖ NON-OILY, VELVETY SKIN FEEL
- ❖ HEAT STABLE



IOI OLEOCHEMICAL

Personal Care



1. DESCRIPTION

MIGLYOL® Gels are heat-stable oleo gels based on emollients. Due to their high thermal stability, they are used as consistency regulators when it is important to maintain viscosity over a wide temperature range. They promote the thermal stability of colour cosmetics and prevent bleeding in stick formulations. They are vegan, available in RSPO MB quality and manufactured exclusively in Germany.

	MIGLYOL® Gel B	MIGLYOL® Gel T	MIGLYOL® Gel 840 B
Emollient	Caprylic/Capric Triglyceride	Caprylic/Capric Triglyceride	Propylene Glycol Dicaprylate/Dicaprate
Clay	Stearalkonium Hectorite	Stearalkonium Bentonite	Stearalkonium Hectorite
INCI	Caprylic/Capric Triglyceride, Stearalkonium Hectorite, Propylene Carbonate	Caprylic/Capric Triglyceride, Stearalkonium Bentonite, Propylene Carbonate	Propylene Glycol Dicaprylate/Dicaprate, Stearalkonium Hectorite, Propylene Carbonate
Colour	fleshy	greenish	fleshy

They are prepared by jellifying MIGLYOL® oils with inorganic gelling agents. They have a soft, pasty consistency similar to petrolatum. They are chemically neutral and oxidation-resistant. Rancidity problems do not occur because only saturated fatty acids are present.

2. APPLICATION

MIGLYOL® Gels are extremely heat-stable and do not melt, even at temperatures of 100°C. The preparation of stable W/O emulsions with different consistencies is possible using only a few ingredients. W/O emulsions with MIGLYOL® Gels do not show phase separation even after short heating to 90°C. Complicated formulations can be simplified substantially.

They are very compatible with the skin because they do not inhibit the skin respiration. MIGLYOL® Gels can be spread easily on the skin. Skin becomes soft and velvety, without a greasy or oily after-feel.

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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 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 |

MIGLYOL® Gels are miscible with all oils, fats, waxes and W/O emulsifiers, soluble in ethyl alcohol, acetone and diethyl ether, whereby a solid residue of bentonite/ hectorite remains and insoluble in water.

FORMULATION HINTS

- Recommended concentration of MIGLYOL® Gels: 1 – 30%
- Applicable for cold and hot processes
- Add MIGLYOL® Gels to the oil phase.
- Disperse MIGLYOL® Gels in the oil phase homogeneously at room temperature or elevated temperatures (up to 100°C) using high-speed agitators or conventional stirring/homogenisation equipment.
- Recommended pH level: pH 4.0 – 7.0





3. FORMULATION GUIDE

HAPPY HAIR! HAPPY EARTH! SOLID CONDITIONING BAR

No. 803

Waterless cosmetics? The ultimate go-green trend? When consumers buy cosmetics, they also buy the amount of water these products contain. Water is not an active ingredient; it is the carrier that unites all other raw materials. Choosing solid cosmetics as alternative demonstrates ecological consciousness. By reducing water in formulations, we gain a variety of benefits, such as less packaging and reduced product weight and sustainability. Good reasons for an ecologically committed consumer.

The benefits of our solid conditioning bar: Use it anywhere, experience a new product sensoriality, save water, the elixir for people and nature & contribute to environmental protection with a responsible attitude

Phase A			%
	MIGLYOL® Coco 810 ¹	Coco-Caprylate/Caprata	10.0
	MIGLYOL® Gel T ¹	Caprylic/Capric Triglyceride (and) Stearalkonium Bentonite (and) Propylene Carbonate	7.0
	IMWITOR® PG3 C10 ¹	Polyglyceryl-3 Caprate	3.0
	IMWITOR® 600 ¹	Polyglyceryl-3 Polyricinoleate	1.0
	SOFTISAN® conditionHAIR ¹	PCA Glyceril Oleate	2.0
	SOFTISAN® 142 ¹	Hydrogenated Coco-Glycerides	23.5
	Shea Butter	Butyrospermum Parkii (Shea) Butter	14.0
	Plantacare® 1200 UP ²	Lauryl Glucoside	9.0
	NAFOL® 1618 HP ³	Cetearyl Alcohol	5.0
	Carnauba Wax	Copernicia Cerifera (Carnauba) Wax	6.0
	Kahlwax 6279L Myrica Fruit Wax ⁴	Myrica Cerifera (Bayberry) Fruit Wax	6.0
	Argan Oil	Argania Spinosa (Argan) Kernel Oil	3.0
<hr/>			
Phase B			
	Aqua dem.	Aqua	5.0
	Sodium Hydroxide 10%	Sodium Hydroxide	1.0
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Phase C			
	Tocopherol	Tocopherol	0.5
	Fragrance	Parfum (EU)/ Fragrance (US)	2.0
	Color		2.0

Procedure:

- Heat phase A to approx. 85°C and homogenise, cool down to 40°C under stirring.
- Add phase B/C and homogenise. Fill the mass into molds and leave it untouched for 1 day, then put it in the freezer for another day.

Supplier References: ¹ IOI Oleo GmbH, ² BASF, ³ Sasol, ⁴ KahlWax

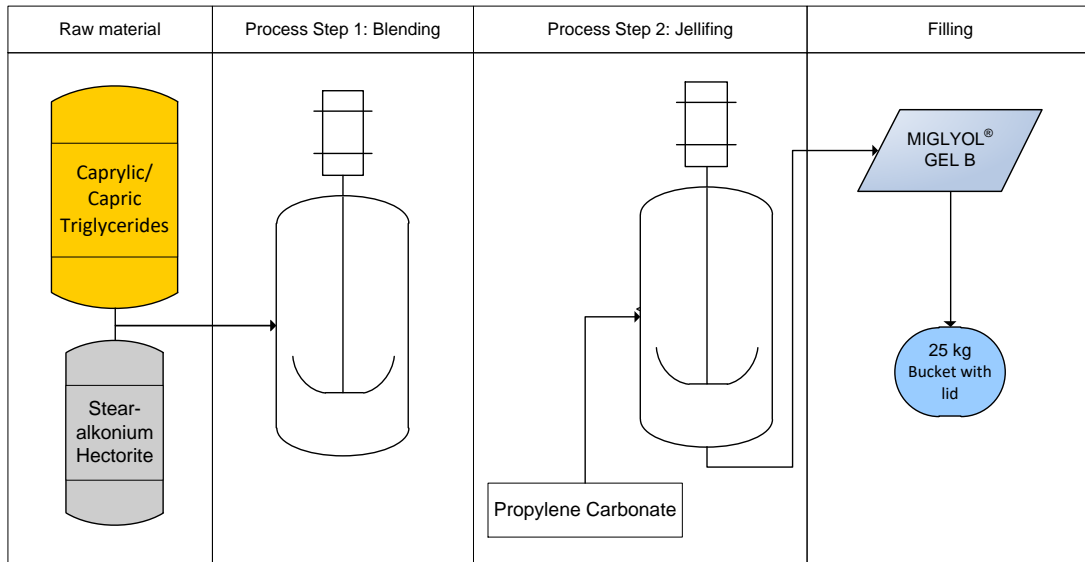


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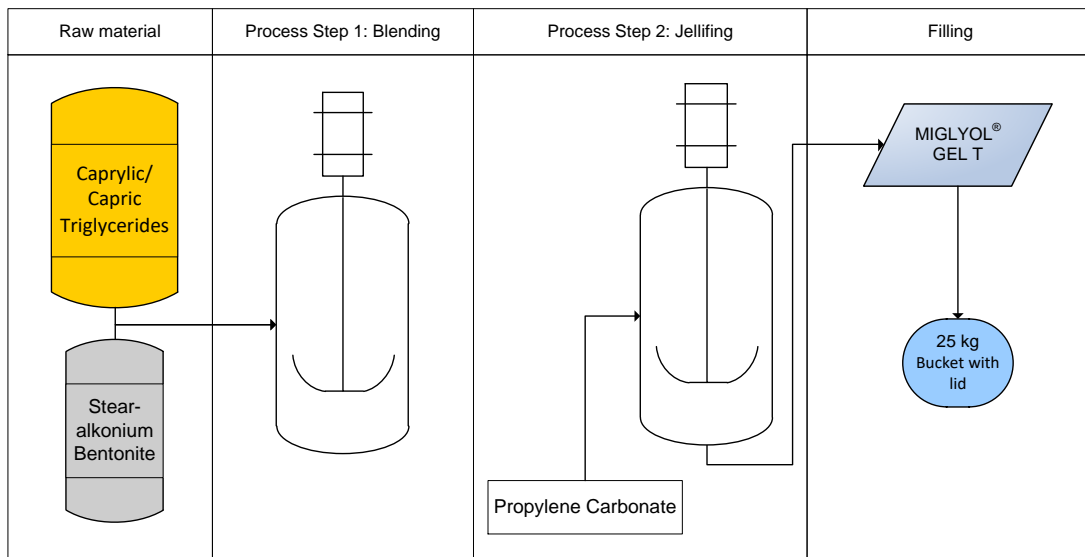


4. FLOW CHART

MIGLYOL® Gel B

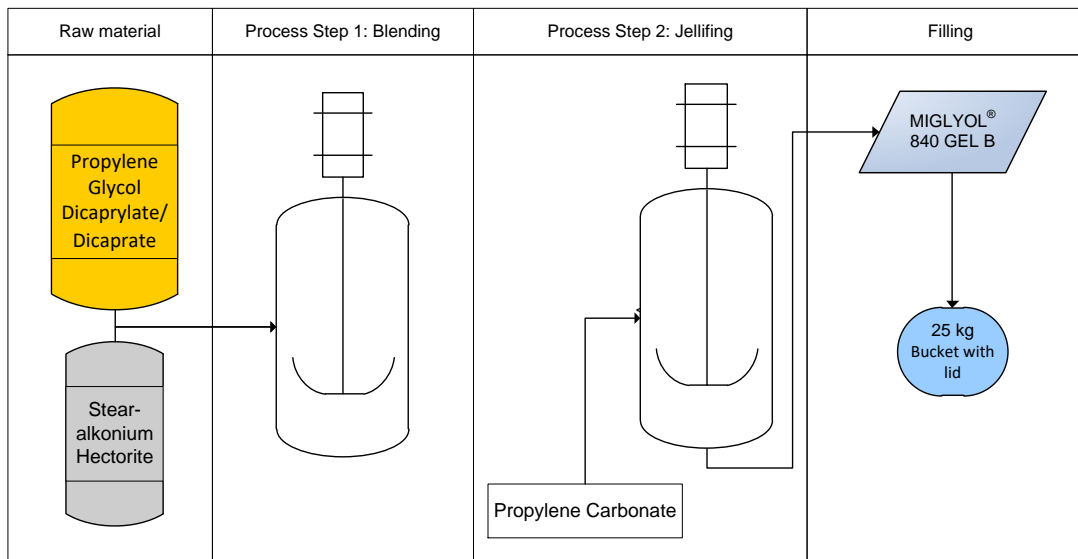


MIGLYOL® Gel T





MIGLYOL® Gel 840 B



5. HANDLING AND SHELF LIFE

Long-term storage: the shelf life for MIGLYOL® Gels is at least thirty-six 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

MIGLYOL® Gels: Bucket with 25 kg, 450 kg on CP2 or euro pallet

7. REGULATORY STATEMENT

	MIGLYOL® Gel B	MIGLYOL® Gel T	MIGLYOL® Gel 840 B
HS Code	38249993	38249993	38249993
CAS No.	73398-61-5; 94891-33-5/71011-26-2; 108-32-7	73398-61-5; 130501-87-0; 108-32-7	68583-51-7; 94891-33-5/71011-26-2; 108-32-7
EU EINECS EC No.	305-633-9	277-452-2	271-516-3
REACH Status	Mixture of several components, all components are registered		
Country of Origin	Germany		
USA	Registered for import and use in cosmetics		
USA-GHS Compliance	Yes		
Australia AICS CAS No.	73398-61-5; 71011-26-2; 108-32-7	73398-61-5; 130501-87-0; 108-32-7	68583-51-7; 71011-26-2; 108-32-7





	MIGLYOL® Gel B	MIGLYOL® Gel T	MIGLYOL® Gel 840 B
Canada DSL DSL/NDSL	DSL		
Canada WHMIS 2015 Compliance	Yes		
China IECIC Standard Chinese Name & Index	辛酸/癸酸甘油三酯 07206 ; 司拉氯铵水 辉石 06423 ; 碳酸丙 二醇酯 06575	辛酸/癸酸甘油三酯 07206 ; 司拉氯铵膨 润土 06422 ; 碳酸丙 二醇酯 06575	丙二醇二辛酸酯/二癸 酸酯 01390 ; 司拉氯铵 水辉石 06423 ; 碳酸丙 二醇酯 06575
Japan Ingredient/ Labelling name	Available on request		
Korean INCI name	카프릴릭/카프릭트 리글리세라이드, 스테아랄코늄헥토 라이트, 프로필렌카보네이 트	카프릴릭/카프릭트 리글리세라이드, 스테아랄코늄벤토 나이트, 프로필렌카보네이 트	프로필렌글라이콜디 카프릴레이트/디카프 레이트, 스테아랄코늄헥토라 이트, 프로필렌카보네이트
Halal	Yes		
Kosher	Yes		

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