



IOI OLEOCHEMICAL

PERSONAL CARE

TECHNICAL DATA SHEET

SOFTISAN® 100, 142, 154

SOFTISAN® 100, 142: Hydrogenated Coco-Glycerides
SOFTISAN® 154: Hydrogenated Palm Oil



- **SOLID LIPIDS**
- **VISCOSITY & CONSISTENCY AGENTS**
- **100% NATURAL & VEGAN**



DESCRIPTION

SOFTISAN® 100, 142 & 154 are pure solid lipids that have very sharp melting points and an exceptional hardness at room temperature. They are 100% natural, vegan, halal, kosher, available in RSPO MB quality and manufactured exclusively in Germany. Due to their performance, they are used as 100 % vegetable based alternatives to mineral-oil based ozokerite.

	Ascending Melting Point	Available in
SOFTISAN® 100	33.5 – 35.5°C	White pellets
SOFTISAN® 142	42.0 – 44.0°C	White pellets
SOFTISAN® 154	53.0 – 58.0°C	White flakes

They are solid lipids based on triglycerides of blends of natural, saturated, even-numbered unbranched fatty acids with a chain length of C12-C18. They are free from antioxidants and stabilizers. SOFTISAN® 100, 142 and 154 are white pellets, resp. flakes (colorless when melted) with a neutral odor and taste. They are exceptionally resistant against oxidation.

APPLICATION

The small interval between melting and solidification points allows a rapid and economic processing. All **SOFTISAN® Solid Lipids** can be heated far beyond their melting points without changing their fast solidification time and good contractility.

They impart body and structure to any kind of formulation and can be used for in-shower products as film former (especially **SOFTISAN® 100**). By combining two or more **SOFTISAN® types**, any melting profile can be achieved (33.5–58.0°C). Therefore, they are highly recommended for all stick applications like lipstick or eyebrow pencils.

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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 |

FORMULATION HINTS

- Recommended concentration of SOFTISAN® Solid Lipids: 1 – 30%
 - Creams & lotions: 2– 15%
 - Lip sticks: 5 – 30%
 - Sun care: 1 – 3% in combination with e.g. SOFTISAN® 378 to control the spreadability of UV-filters
- Applicable for cold (>35°C) and hot processes
- Add SOFTISAN® Solid Lipids to the oil phase
- Recommended pH level: pH 4.0 – 7.0



FORMULATION GUIDE

CREAM-TO-POWDER SHIMMER DUST NO. 830

MIGLYOL® Gel B maintains its homogeneity even at high temperatures (improved heat stability) and facilitates the application of the shimmer dust. It is responsible for this soft and surprising texture. MIGLYOL® Coco 810 is a fast spreading emollient providing a silky, powdery and dry skin feel. WITARIX® MCT C8 leads to a rich skin feel during application and to a smooth and silky skin feel after absorption. SOFTISAN® 100 controls the melting behavior (melting point of approx. 32°C). Unlike waxes, SOFTISAN® 100 is a triglyceride with a very pleasant skin feel when molten. IMWITOR® 600 is a W/O emulsifier also suitable for pasty formulations.

	Trade Name	INCI	%
PHASE A	MIGLYOL® Gel B	Caprylic/Capric Triglyceride (and) Stearylalkonium Hectorite (and) Propylene Carbonate	42.0
PHASE B	MIGLYOL® Coco 810	Coco-Caprylate/Caprate	7.0
	WITARIX® MCT C8	Tricaprylin	8.0
	SOFTISAN® 100	Hydrogenated Coco-Glycerides	4.0
	IMWITOR® 600	Polyglyceryl-3 Polyricinoleate	2.0
	Cetiol® MM	Myristyl Myristate	4.0
	Tocopherol	Tocopherol	1.0
PHASE C	Water demin.	Aqua	4.0
PHASE D	Timiron® Splendid Red	Mica (and) Titanium Dioxide (and) Silica	3.0
	Timiron® Silk Red	Titanium Dioxide (and) Mica (and) Tin Oxide	3.0
	SanTalc 511	Talc	12.0
	Rice PO4 Natural	Distarch Phosphate	10.0

PREPARATION:

1. Heat phase B to approx. 50°C.
2. Add phase C drop by drop to phase B under stirring and stir until an emulsion is formed.
3. Add phase A to phases B/C and homogenize (3 min @ 10.000 rpm).
4. Add phase D one by one and stir until a homogenous paste is obtained.

SUPPLIERS:

**IOI Oleo: IMWITOR®, MIGLYOL®, SOFTISAN®,
WITARIX®**
 BASF: Cetiol®
 Merck: Timiron®
 Sandream Impact: SanTalc
 AGRANA: Rice PO4



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.

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

PREPARATION:

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

SUPPLIERS:

IOI Oleo GmbH: IMWITOR®, MIGLYOL®, SOFTISAN
 BASF: Plantacare®
 Sasol: Nafol®
 KahlWax: Myrica Fruit Wax



HANDLING AND SHELF LIFE

The shelf life for SOFTISAN® Solid Lipids 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.

PACKAGING UNITS

SOFTISAN® 100: carton box with 20 kg, 640 kg on euro pallet

SOFTISAN® 142: carton box with 20 kg, 640 kg on euro pallet

SOFTISAN® 154: 25 kg paper bag, 450 kg on CP2 pallet

IOI Oleo GmbH

Hamburg, Germany | +49 40 28 00 31-0
personalcare@ioioleo.de | www.ioioleo.de

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

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