

# **TABC**

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**PRODUCT INFORMATION**

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**SOFTISAN® 378****Hard Fat**

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**Description**

SOFTISAN® 378 is a specialty blend of triglycerides based on saturated even-numbered, unbranched natural fatty acids of vegetable origin with a chain length of C<sub>8</sub> - C<sub>18</sub>. It is free from antioxidants and other stabilizing additives. It is similar to lard in consistency, but has superior oxidation stability and product uniformity. SOFTISAN® 378 meets the requirements of the EP\* and USP/NF\* "Hard Fat" monographs.

**INCI Name:** Caprylic/Capric/Myristic/Stearic Triglyceride**JCIC\* Name:** Caprylic/Capric/Stearic Triglyceride**Characteristic Values**

Tests	Value	Unit	Method
Acid value	max. 0.5	mg KOH/g	EP 2.5.1
Saponification value	245 - 260	mg KOH/g	DGF* C-V3
Iodine color value	max. 2	mg I <sub>2</sub> /100 ml	DGF C-V 4a
Hydroxyl value	7 - 17	mg KOH/g	DGF C-V 17a
Drop point <sup>a)</sup>	39 - 42	°C	AOCS* CC1880

a) Ascending melting point determination is difficult to reproduce, because of its fatty acid distribution (due to adhesion to the glass capillary). The drop point method is more precise.

**Properties**

- SOFTISAN® 378 is a white to ivory-colored semi-solid mass with a neutral fatty odor and a mild fatty taste.
- SOFTISAN® 378 is readily soluble in diethyl ether, toluene, and n-hexane; soluble in acetone and ethanol when heated; insoluble in water; and miscible with fats and oils.
- Because of its composition SOFTISAN® 378 exhibits a long shelf life without risk of rancidity. It has excellent skin compatibility and is harmless, even when ingested (edible fat).
- SOFTISAN® 378 spreads well on the skin and penetrates easily. It does not inhibit natural skin respiration and has an absorption-promoting effect.
- The fatty acids used for the production of SOFTISAN® 378 comply with CFR\* 21, § 172.860.
- SOFTISAN® 378 is registered under DMF\* No. 10580.

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## **Applications**

- SOFTISAN<sup>®</sup> 378 is used as a non-oxidizing fat base in the pharmaceutical and cosmetic industries. It is particularly suitable for use in high-quality dermal preparations because the skin is provided with a similar triglyceride mixture that is not tacky and, unlike paraffins, does not leave a greasy sheen. It can also be used in decorative cosmetics, such as eye shadows and sticks.
- SOFTISAN<sup>®</sup> 378 allows for rapid melting of the product on the skin, and active ingredients are therefore quickly released. In addition SOFTISAN<sup>®</sup> 378 has absorption-promoting properties and behaves in a neutral manner towards active substances.
- SOFTISAN<sup>®</sup> 378 is also suitable as a carrier of active ingredients in hard and soft gelatine capsules.
- SOFTISAN<sup>®</sup> 378 can be easily incorporated, either in a molten or cold state, in ointments, creams, lotions and pastes.
- Owing to its purely vegetable origin and its mode of production SOFTISAN<sup>®</sup> 378 is free of any skin-irritating substances such as toxic heavy metals, catalysts, solvents, antioxidants and other stabilizers.

## **Delivery Form and Packaging**

Solid mass in plastic containers of 25 kg net or in drums of 180 kg net.

## **Storage and Shelf Life**

Store in tightly closed containers, at a cool temperature (< 25 °C), protected from light and moisture. The shelf life of SOFTISAN<sup>®</sup> 378 under these conditions is at least three years. If only part of the product is to be used, melting the material in the container and stirring to ensure homogeneity prior to removal is recommended.

*Please refer to the SASOL Material Safety Data Sheet for specific, complete information regarding the safe handling, health and environmental effects for this product.*

## Application Examples

### Anhydrous Massage Cream

	%
A. SOFTISAN® 378 (Caprylic/Capric/Myristic/Stearic Triglyceride)	50
MIGLYOL® 812 (Caprylic/Capric Triglyceride)	20
Petrolatum	20
Mineral Oil	10
B. Fragrance	qs

### Preparation

A is completely melted and cooled while stirring. B is added at about 40°C. Homogenization is recommended prior to filling.

### Fatty Cream

	%
A. Alugel 30 DF <sup>1)</sup> (Aluminum Stearate)	2
Petrolatum	11
B. SOFTISAN® 378 (Caprylic/Capric/Myristic/Stearic Triglyceride)	11
IMWITOR® 780 K (Isostearyl Diglyceryl Succinate)	10
MIGLYOL® 812 (Caprylic/Capric Triglyceride)	5
Beeswax	2
C. Preservative	qs
Water (Aqua), Deionized	qs 100
D. Fragrance	qs

### Preparation

A is heated to about 90 °C until gelled. B is melted at about 75 °C and slowly added to A. C is also heated to about 75 °C and emulsified into A + B. D is added at approximately 40 °C.

### Skin Milk

	%
A. MIGLYOL® 812 (Caprylic/Capric Triglyceride)	5
DYNACERIN® 660 (Oleyl Erucate)	5
SOFTISAN® 378 (Caprylic/Capric/Myristic/Stearic Triglyceride)	4
IMWITOR® 375 (Glyceryl Citrate/Laurate/Linoleate Oleate)	3
Emulgade F <sup>2)</sup> (Cetearyl Alcohol (and) PEG-40 Castor Oil (and) Sodium Cetearyl Sulfate)	5
Isopropyl Myristate	4
Belsil PDM 200 <sup>3)</sup> (Phenyl Trimethicone)	3
B. Carbopol 981 <sup>4)</sup> (Carbomer) Gel 1 %	10
Water (Aqua), Deionized	qs 100
C. Fragrance	qs

### Preparation

A is blended and heated to about 75 °C. B is brought to the same temperature and emulsified gradually into A. C is added at about 30 °C.

### List of Suppliers

- 1) Baerlocher USA, Dover, OH, USA
- 2) Cognis Corp., Ambler, PA, USA
- 3) Wacker Silicones Corp., Adrian, MI, USA
- 4) BF Goodrich Performance Materials, Cleveland, OH, USA

- \* EP = European Pharmacopoeia
- \* USP/NF = United States Pharmacopoeia/National Formulary
- \* JCIC = Japanese Cosmetic Ingredients Codex
- \* DGF = Deutsche Gesellschaft für Fettwissenschaft
- \* AOCS = American Oil Chemists' Society
- \* CFR = Code of Federal Regulations
- \* DMF = Drug Master File

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