EVOIL® CARESS

TEXTRON

EVOIL® BY TEXTRON

Bringing Balance to Cosmetics - Plant and Fruit Oils

DESCRIPTION

- Consists of a multifunctional emollient obtained from natural vegetable oils.
- High content (ca. 25 %) of long chain length fatty acid.
- Contains up to 75 % of unsaturated fatty acids.
- Excellent oxidative stability.
- Outstanding spreadability.
- Rich in vitamins (A, E and F).

Dosage: 3-100 %
Recommended pH: 5.0 -7.0

EVOIL® CARESS contains multiple unsaturated fatty acids from vegetable oils of the maximum quality with a particularly high content of naturally occurring long chained length fatty acids and linear esters with many functional cosmetic properties: protects the skin from drying out and supplies it with special lipids components similar to human sebum, to restore physiological lipid barrier functions. Revitalizes dry damage hair. Also contains natural vitamin F.

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CLAIMS

Hair

- Softens and revitalizes dry or damaged brittle hair.

Skin

- Acts as a skin protector and balances the moisture content of the skin.
- Repairs lipid barrier and minimices transepidermal water loss (TEWL).
- Non-greasy feeling, soaks into the skin easily.
- Shows an outstanding spreadability.

EVOIL® CARESS is an optimized biomimetic combination of lineal esters and long chain fatty acids, isolated from natural vegetable oils with outstanding qualities for the skin and hair. This complex mixture replenishes and rebuilds the skin barrier. In addition, its composition is very similar to the lipids that make up 25- 30% of human sebum therefore it is highly effective moisturizer that is extremely compatible with human skin.

The skin is an important interface between humans and the environment. In the drier regions of the world, both plants and animals have developed elaborate systems to prevent water loss. Most of these systems are based upon various lipids, complexed into organized structures (membranes), to form a protective impermeable layer.

This is especially true in the skin, where in the stratum corneum, highly organized multi-lamellar structures, provide protection and water impermeability [(1).]. These membranes slow the passage of water from the fully hydrated body core to the relatively drier environment. Age, skin metabolic changes, and environmental stress mediate changes in skin physiology and function, resulting in a defective water regulatory system [(2)]. This can lead to cosmetic dry skin, abnormal enzyme function, increased susceptibility to irritation, and can result in various forms of dermatitis [(3, 4)].

In humans, long lineal chain esters have long been recognized as an important component in the skin barrier function. Long chain fatty acids combined with cholesterol and triglycerides, form stable multilayered membrane structures in the skin.

EVOIL® CARESS mimics these structures. With intelligent formula design and the addition of EVOIL® CARESS skin care formulas can be developed, which literally recreate a perfect water regulatory system, such as those found in younger, healthy skin.

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APPLICATION

EVOIL® CARESS may be applied directly to the skin and makes an ideally suited massage oil. It can also be used as an extender in formulation.

EVOIL® CARESS is ideal for use in personal care products as an emollient to give an enhanced richness and creamier texture to emulsions. This multi-functional emollient softens the skin, leaving a silky and dry feel after absorption.

EVOIL® CARESS IN COSMETICS FORMULATIONS

EVOIL® CARESS spreads easily on the skin without the oil film being absorbed too quickly. It is therefore possible to create elegant skin care systems when used in combination with other active ingredients.

APPLICATION EXAMPLES

1. BABY MASSAGE OIL

	No.	Ingredients	Quantity in %
A.	1.	Sweet almond Oil	**35.0**
	2.	**EVOIL® CARESS**	**59.42**
	3.	Olive squalane	**5.0**
	4.	Antioxidant	**0.50**
	5.	Fragance	**0.08**
		Total	100g

PROCEDURE:

Mix the ingredients from **Phase A 1-4** respectively under slow stirring at room temperature.
Color & fragrance can also be added as per the requirements.
Slow stirring for longer periods of time is advisable for proper mixing & to avoid aeration.

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2. NIGHT CREAM, W/O

	No.	Ingredients	Quantity in %
A.	1.	**EVOIL® CARESS**	**19.0**
	2.	Propylene Glycol/Dicarpylate/Dicaprate	3.0
	3.	Isostearyl Diglyceryl Succinate	5.0
	4.	Olive squalane	2.0
B.	1.	Magnesium Sulphate	2.0
	2.	Preservative	q.s.
	3.	Water add	q.s
C.	1.	Fragance	q.s.
	2.	Antioxidant	q.s.

PROCEDURE:
Heat the ingredients from **Phase A 1-4** respectively under slow stirring at about 75ºC. **B** ingredients are brought to the same temperature. Then **B** is emulsified into **A**. And **C** ingredients are added at about 30 ºC.

3. LIP POMADE

	No.	Ingredients	Quantity in %
A.	1.	**EVOIL® CARESS**	**13.0**
	2.	Coconut Oil	20.0
	3.	Caprylic/Capric Triglyceride	6.0
	4.	Bis-Diglyceryl Polyacyladipate-2	5.0
	5.	Sweet Almond Oil	30.0
	6.	Cetyl Alcohol	5.0
	7.	Carnauba Wax	1.0
	8.	Beewax	20.0.
	9.	Antioxidant	q.s.

PROCEDURE:

Heat up the ingredients **Phase A** about 80ºC and stirred to a homogeneous melt. At about 45 ºC fragrance is added and the substance is poured into molds.

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EVOIL® CARESS

EVOIL® CARESS (TX008237)

Composition: Natural vegetable oils, biomimetic combination of lineal esters and long chain fatty acids, vegetal triterpenes and natural pigments.

TECHNICAL INFORMATION

Appearance:	Oily liquid, yellow with minimum odor
Saponification value:	150 -165 mg KOH/g
Iodine value:	70 -85 wijs
Waxes content:	135 – 155 ppm
Viscosity (60 rpm, spindle no.1):	ca. 25 cP

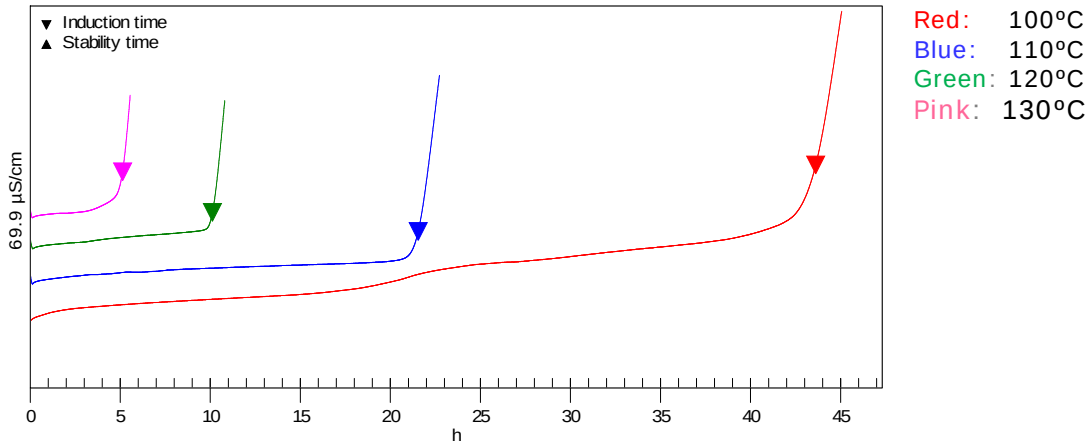
OIL STABILITY INDEX (OSI)

The Oil Stability Index (OSI) was determined using a Rancimat instrument. The rapidity of oxidation of an oil depends on the degree of unsaturation, the presence of antioxidants, and prior storage conditions. In the OSI analysis, the rate of oxidation is slow until resistance to oxidation is overcome. This time is known as the oxidation induction period and it is a tool to determine the shelf life of the oil.

EVOIL® CARESS OSI: **43.6 h (100°C)**

ISO 6886 (2006) Animal and vegetable fats and oils
Determination of oxidation stability
Conditions

Sample amount 2.5 ± 0.01 g	Temperature 100°C ± 0.2°C
Gas flow 20 L/h	Vessel: 50 mL distilled water
Evaluation Conductivity	Induction time (tangent method)



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EVOIL® CARESS INCI NAME

Helianthus Annus Seed Oil, Limmanthes Alba Seed Oil, Oleyl Erucate, Cetearyl Ethylhexanoate, Squalane, Linoleic acid, Linolenic acid and Xanthophyll.

EVOIL® CARESS ASSESSMENT OF THE MOISTURISING EFFICIENCY:

To assess moisturizing efficiency of EVOIL® CARESS, two different assays were performed:

1) **Corneometry**:
   Results of corneometry after a single and standardized application of **EVOIL® CARESS** in the assayed conditions on 13 healthy female volunteers, leads to a **SIGNIFICANT IMPROVEMENT** of the skin hydration rate after 1 hour and 3 hour. Thus, the **hydration of the upper layers of the epidermis** is proven by these results.

2) **Measurement of the trans epidermal water loss (TEWL)**:
   Moreover, measurement of trans epidermal water loss in the experimental conditions on 12 healthy female volunteers , leaded to a non significant variation of the TEWL values after 2 hours and 4 hours after application. So, these results demonstrate that **EVOIL® CARESS** indeed **maintains the skin barrier state**.

EVOIL® CARESS PATCH TEST:

Acute skin tolerance of a **EVOIL® CARESS** (tested pure) was evaluated by application under occlusive patch over a 48-hour period on healty adult volunteers with sensitive skin and it it can be concluded that the product is classified as **NON IRRITATING.**

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TEST RESULTS	
Product	**EVOIL® CARESS**
Type of patch	Occluded
Number of volunteers	10
Specificityof the panel	Sensitive skin
Average irritation score	0.00
Classification	**NON IRRITANT**

COMPANY PROFILE

TEXTRON draws on more than 25 years of experience in producing and supplying the highest quality vegetable oils worldwide.

TEXTRON supplies the market with a wide range of pure oils, including refined, certified organic, and virgin oils, the latter obtained by the first cold press process.

Furthermore, under the trade name EVOIL®, TEXTRON presents the cosmetic sector with a range of specially formulated plant and vegetable oils, drawing on nature's great variety of ingredients.

EVOIL® products also offer the possibility of including active ingredients in their formulations for specific body care treatments and products.

TEXTRON collaborates with customers in the development of new tailor-made products, from studies on formulation and stability to the approval of the final product and dermatological testing.

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