

## Technical data sheet

**ECTOinOIL®**

Product no.: 10022

For the very first time, **ECTOinOIL®** allows Ectoin® natural, which is our highly effective and hydrophilic active ingredient, to be formulated in clear oil-compatible incorporation.

**ECTOinOIL®** enables the formulation of the unique characteristics of Ectoin® natural, as a stress protection molecule into nourishing oils. The efficacy of Ectoin® natural has been proven by various clinical *in vivo* studies.

**ECTOinOIL®** and Ectoin® natural are "Made in Germany" and 100% natural.

Trade name	<b>ECTOinOIL®</b>
INCI name	Aqua (Water), Caprylyl/Capryl Glucoside, Propanediol, Ectoin
CAS No.	7732-18-5, 68515-73-1, 504-63-2, 96702-03-3
EINECS / EC No.	231-791-2, 500-220-1, 207-997-3, 431-910-1
Description	Clear liquid, oil compatible solution, easy to formulate
Content of Ectoin® natural	Ectoin® natural content corresponds 1:10 to the formulated <b>ECTOinOIL®</b> concentration (e.g.: 0.5% Ectoin® natural = <b>ECTOinOIL®</b> 5%)
Specification	See specification data sheet
Stability	Temperatures <80 °C
Solubility	Water soluble, oil soluble (Please see formulation guidelines)
Level of use	1-5%
Application media	Oil phase

Appearance	Transparent, colorless to yellowish liquid
Odor	Slightly characteristic
pH value	6.0 - 7.0
Density [g/mL]	1.00 - 1.20
Kin. viscosity [mm <sup>2</sup> /s]	15 - 20

China compliant	Yes
EU regulations	No limitations according to the European Cosmetic Regulation (EC) No 1223/2009. <b>ECTOinOIL®</b> can be used for cosmetic formulations.
USA regulations	Not specifically regulated by cosmetic regulations. <b>ECTOinOIL®</b> can be used for cosmetic formulations.
Japan regulations	Not specifically regulated by cosmetic regulations. <b>ECTOinOIL®</b> can be used for cosmetic formulations under the responsibility of the manufacturer.
NATRUE	Compliant
COSMOS	Compliant
ECOCERT	Compliant
KOSHER	Compliant
Halal	Compliant
ISO 16128	Yes

Production process	Manufacturing process according to EN ISO 22716 GMP
Shelf life	12 months, then retest
Shipping / handling	No restrictions
Storage	Dry place at 15-25°C, tightly closed
Pack units	1kg, 5kg, 20kg

HS code for exports	29335995
HS code for imports	2933599590

## CERTIFICATES



\* in registration

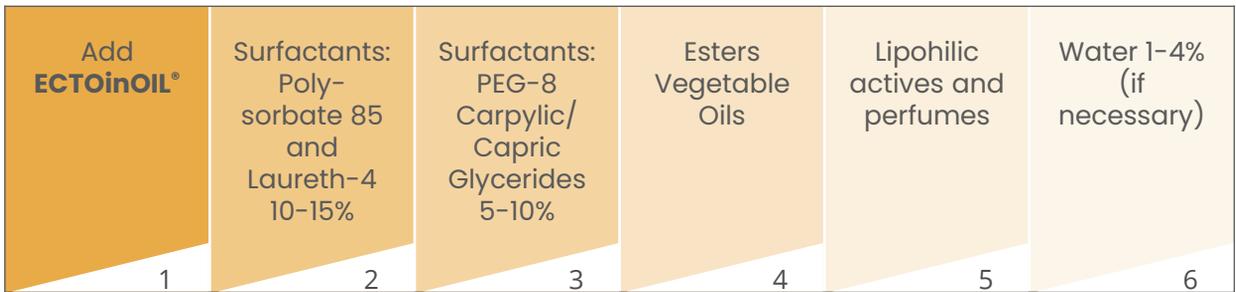
## APPLICATIONS

- Body oils
- Sun care
- Oil serums
- Baby care
- Pressed powders
- Male grooming
- Lip care (e.g., lip balm, lip gloss, lipstick)
- Color cosmetics (e.g., foundation, mascara, eye shadow)

## FORMULATION GUIDELINES

- Level of use: 1-5%
- Can be added directly to oil the phase under 80 °C in color cosmetics and lip care
- For clear oils the dosage of oils and surfactants need to be adjusted
- Compatible with MCT, esters, vegetable oil and surfactants
- Dimethicone: will always give a non-clear solution

How to incorporate ECTOinOIL® into a formulation:



ECTOinOIL® which for the very first time can be formulated in OIL and POWDERS.

Different types or combinations of oils require different amounts of surfactants and water for adjusting transparency. The amounts required need to be optimized by repeated trials on each type or specific oil composition.

The type of oil/s used may impact the stability and transparency of the final product.

## SAFETY DATA

ECTOinOIL® has an excellent safety profile. Please see MSDS for further information.

## GENERAL INFORMATION

### Origin

ECTOinOIL® is manufactured by a manufacturing process according to manufacturing process according to EN ISO 22716 GMP.

### Allergens

ECTOinOIL® does not contain substances classified as allergenic according to European Directive 2000/13/EC (amended by 2003/89/EC) or 2003/15/EC Annex III (7<sup>th</sup> Amendment, Cosmetic Directive 76/768/EEC Fragrance Allergens). Though we have not tested the product for content of the chemicals, we do not expect them to be present in significant amounts.

### Animal/Pork free

We hereby certify that all materials and facilities used for the production of ECTOinOIL® are free from animal/pork or animal/pork derivatives.

### Antibiotics, hormones, steroidal products, dioxine, gluten

ECTOinOIL® is not made with antibiotics, hormones, steroidal products, dioxine, gluten. Though we have not tested this product for content of the chemicals, we do not expect them to be present in significant amounts.

### BSE/TSE

We do not use components derived from animal sources in the manufacturing or formulation of this product.

### Bisphenol A, latex, dioxine, 1,4-dioxane, phthalates

These substances are not intentionally added in the manufacture or the formulation of the packaging material. If suppliers tested for these substances, they were not present in significant amounts. Suppliers certified to bitop AG, that the packaging material does not contain any SHVC.

### California Proposition 65

The product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

### CMR declaration

ECTOinOIL® does not contain substances classified as carcinogenic, mutagenic or toxic for reproduction, of category 1A, 1B, 2 and 3 of Annex VI to Regulation (EC) No 1272/2008.

## GENERAL INFORMATION

### **Cyclosiloxanes D4, D5, D6**

We hereby confirm that the substances octamethylcyclotetrasiloxane (CAS No. 555-67-2 (D4)), decamethylcyclopentasiloxane (CAS No. 541-05-6 (D5)) and dodecamethylcyclohexasiloxane, (CAS No. 540-97-6 (D6)) are not used in the manufacture of the product.

### **EG/DEG**

Because of the used raw materials and/or the manufacturing procedures the presence of ethylene glycol (EG; CAS 107-21-1) or diethylene glycol (DEG; CAS 111-46-6) can be excluded.

### **Formaldehyde**

Because of the used raw materials and/or the manufacturing procedures the presence of formaldehyde in ECTOinOIL® can be excluded.

### **Genotoxic impurities**

The product is free of genotoxic impurities.

### **Gluten**

We hereby confirm that according to product composition and manufacturing process the presence of Gluten is not expected in the product.

### **Glycol Ethers**

We declare that the product does not contain any glycol ethers. During the manufacturing process no glycol ethers are used.

### **HALAL customer information**

Declaration on non-intentional use of Halal relevant substances. The product is not manufactured by the use of alcohol (ethanol) or pork or any animal ingredients and does not contain in any way any animal fats or ingredients respectively impurities derived from any animal fats.

### **Heavy metals and metal catalysts**

ECTOinOIL® is tested for heavy metals individually. See specification data sheet. Metal catalysts are not used for production of the above mentioned product and are not expected to be present.

## GENERAL INFORMATION

### **Irradiation**

We declare that **ECTOinOIL®** is produced free from irradiation. In the production process no irradiation is used.

### **Kosher**

The product does not contain or get in contact with any animal-based material.

### **Latex**

We hereby confirm that no materials containing latex or natural rubber are used in the manufacturing, handling and packaging process of our products.

### **Microplastics**

We hereby confirm that the product does not contain microplastic.

### **Nanomaterial**

We declare that the product does not contain any nanomaterials as defined in EU cosmetics regulation 1223/2009 Reg. Art. 2.

### **No-animal testing**

We declare that **ECTOinOIL®** conforms to the requirements of EU cosmetics regulation 1223/2009 Reg. Art. 18 and EC 2003/15 Reg. Art 1 paragraph 2 (Art.4).

### **Palm oil free**

The product is 100% free of palm oil or its derivatives. Also, no palm oil or its derivatives is used during manufacturing process of **ECTOinOIL®**.

### **Parabens**

We hereby confirm that the product does not contain parabens.

### **Pathogens**

We hereby confirm the absence of pathogenic germs as follows (absent in 1 g):

- Yeast / Moulds
- *Pseudomonas aeruginosa*
- *E. coli* / Enterococcae
- *Candida albicans*
- *Staphylococcus aureus*
- *Aspergillus niger*

## GENERAL INFORMATION

### **Petrochemicals**

We declare that the product is free of any petrochemical substances or their derivatives. No petrochemical substances or their derivatives are used during manufacturing process of **ECTOinOIL®**.

### **Phthalates**

The product does not contain phthalates.

### **Pesticides free**

We declare, that no materials containing pesticides or residues of pesticides are used in the manufacturing, handling and packaging process of our products.

### **Substances of Very High Concern (SVHC)**

The product does not contain any substances listed in the current candidate list of Substances of Very High Concern published by the European Chemicals Agency (ECHA).

### **Sulfates**

We declare that according to the manufacturing procedures the presence of sulfates in the product can be excluded.

### **Sweeteners, Flavors, Colors**

**ECTOinOIL®** does not contain sweeteners (95/31/EC), flavors (88/388/EC+113/2006/EC), colors (95/45/EC) or other substances according to 96/77/EC. Though we have not tested this product for content of the chemicals, we do not expect them to be present in significant amounts.

### **Toxic Substance Control Act (TSCA) Certification**

We certify that all chemicals in this shipment are not subject to TSCA.

### **Vegan**

We hereby confirm that the product is vegan, as it contains no animal ingredients or by-products. No animal ingredients or by-products are used during manufacturing process of **ECTOinOIL®**.

### **VOC & PAH**

The product does not contain any volatile organic compounds (VOCs) and polycyclic aromatic hydrocarbons (PAHs).

## GENERAL INFORMATION



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