



RAW MATERIAL DATA SHEET

Olifeel® Pearls

PRODUCT IDENTIFICATION

| | | | |
|---|---|----------------------------------|--|
| (I) Supplier name | ROELMI HPC SRL Legal office: Via Celeste Milani 24/26 -21040 Origgio (VA) - Italy T. +39 02 3351 0150 F. +39 02 3354 9210 | | |
| (II) EU/US INCI name | EU INCI name | | US INCI name |
| | PALMITIC/STEARIC TRIGLYCERIDE* or C10-18 TRIGLYCERIDES** | | PALMITIC/STEARIC TRIGLYCERIDE* or C10-18 TRIGLYCERIDES** |
| * China IECIC - Inventory of Existing Cosmetic Ingredients: not listed ** China IECIC - Inventory of Existing Cosmetic Ingredients: listed | | | |
| (III) Regulatory information | Empirical Formula: N.A. Chemical name: N.A. | | |
| | EU and US INCI name | Chinese (IECIC) INCI name | CAS and EC nr. according to REACH regulation |
| | PALMITIC/STEARIC TRIGLYCERIDE or C10-18 TRIGLYCERIDES | C10-18 TRIGLYCERIDES | CAS: 68002-71-1 EC: 268-084-3 |
| CAS and EC nr. associated to the INCI name* | | | |
| | | | CAS: 85665-33-4 EC: 288-123-8 |
| *found in the International Cosmetic Ingredient Dictionary and Handbook, published by PCPC US and European Pharmacopoeia: Not applicable Classification & labelling according to EU Chemical regulation: this product is not subjected to labelling as it is not a dangerous substance (regulation 1272/2008) Transport: not regulated. Tariff code: 15162098 | | | |
| (IV) Functions | Viscosity controlling. Texturizing agent for personal care applications. | | |
| (V) Geographical origin | Produced in Italy. | | |

REGULATORY STATUS

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| (VI) Chemical Inventory position | <p><u>Searching with CAS numbers associated to INCI (C10-18 TRIGLYCERIDES)</u></p> <p>Component(s) listed in TSCA (US): yes Component(s) listed in DSL (Canada): yes Component(s) listed in AICS (Australia): yes Component(s) listed in IECICS (China): yes</p> |
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| | <p>Component(s) listed in ENCS (Japan): yes Component(s) listed in KECL (Korea): yes Component(s) listed in PICCS (Philippines): yes Component(s) listed in NZIoC (New Zealand): yes Component(s) listed in Proposition 65 (California): no</p> <p><u>Searching with CAS numbers associated to REACH identifier (see chapter VIII)</u> Component(s) listed in TSCA (US): yes Component(s) listed in DSL (Canada): yes Component(s) listed in AICS (Australia): yes Component(s) listed in IECICS (China): yes Component(s) listed in ENCS (Japan): yes Component(s) listed in KECL (Korea): yes Component(s) listed in PICCS (Philippines): yes Component(s) listed in NZIoC (New Zealand): yes Component(s) listed in Proposition 65 (California): no</p> |
| (VII) Cosmetic Regulatory Status | <p>No restriction or limitation for personal care applications. Canadian cosmetic ingredient hotlist: not listed Component(s) listed in Cosmetic China IECIC: yes (as C10-18 TRIGLYCERIDES) Chinese notification number in compliance with CSAR regulation (released by NMPA) is 000089-01921-4080.</p> |
| (VIII) Cosmetic Regulatory Conformity | <p><u>Regulatory conformity:</u> Olifeel® Pearls complies with Regulation 1223/2009 and further amendments. It does not contain any of the restricted or prohibited substances listed in Annex II and III of Cosmetics Regulation.</p> <p><u>CMR:</u> Olifeel® Pearls does not contain any substances intentionally added and classified as Carcinogenic, Mutagenic or Reprotoxic substances, based on the classification criteria of the Regulation (EC) 1272/2008 (CLP).</p> <p><u>Allergens:</u> We certify that Olifeel® Pearls complies with Regulation (EC) 1223/2009 regarding the presence of the 26 substances identified as allergenic in cosmetics. Due to the nature of the materials used for our productions and to bibliographic data, it can be stated that these allergens are absent.</p> <p><u>TSE/BSE:</u> We confirm that Olifeel® Pearls does not contain any animal raw material, therefore it is free from any BSE/TSE transmitting agents.</p> <p><u>Animal testing:</u> We declare that no animal testing was made by Roelmi HPC for cosmetic use accordingly to Regulation (EC) 1223/2009.</p> <p><u>Ionization:</u> the product is not subjected to ionization process.</p> |

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| | <p>REACH: Olifeel® Pearls was registered n° 01-2119485968-12-xxxx under CAS n°68002-71-1 and EC n° 268-084-3</p> |
| <p>(IX) Toxicology Ecotoxicity Biodegradability information</p> | <p>Toxicological information</p> <p>Tests for cosmetic safety evaluation</p> <p>-Skin sensitization potency (SHELANSKI & SHELANSKI TEST, dermatologic repeated patch test of an undiluted sample to detect the skin sensitization potency): NON IRRITATING, HYPOALLERGENIC (low sensitization power)</p> <p>-Eye irritation (HET CAM TEST, in vitro test for the evaluation of the ocular irritation potency of an undiluted sample of product, full report available on demand): HYPOIRRITANT</p> <p>Bibliographic data (source: ECHA website (Glycerides, C16-18))</p> <ul style="list-style-type: none"> ▪ LD50 > 5000 mg/kg bw ▪ Skin irritation: Non irritant ▪ Skin sensitization: Not sensitizing ▪ Eye irritation: Mildly irritant ▪ Mutagenic/carcinogenic: Non mutagenic/carcinogenic <p>Other safety evaluations</p> <p>- The product has been selling for more than 5 years with no reported adverse cases for human health.</p> <p>- Olifeel® Pearls is covered under EU law for food contact. It is not listed with its own CAS number, but under the generic name: "acids, C2-C24, aliphatic, linear, monocarboxylic, synthetic and their mono-, di- and triglycerol esters".</p> <p>Ecological & Biodegradability information (registration data, available on ECHA website (Glycerides, C16-18)):</p> <ul style="list-style-type: none"> ▪ Acute toxicity fish: LC0 > 1000 mg/kg (OECD 203) ▪ Acute toxicity algae: 72 h EbL50 and ErL50 of the test material were determined to be 10 - 100 and 100 - 1,000 mg/L (ISO 10253) ▪ Biodegradability: readily Biodegradable (Method published by the Coordinating European Council, now listed as CEC L-33-A-934) ▪ Bioaccumulation: when ingested, the constituent triglycerides are well known to be broken down into glycerol and fatty acids. As such, the substance is not expected to bioaccumulate in aquatic or terrestrial organisms ▪ PBT/vPvB: No, Glycerides, C16-18 are readily biodegradable (not 'P' and not 'vP') and have low potential for bioaccumulation (not 'B' and not 'vB'). Furthermore, the |



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substance does not fulfill the criteria for 'T' as defined by the REACH legislation. In conclusion, it is not considered to be PBT or vPvB.

Data on raw materials used for the ester:

- Glycerine is included in DID list (Detergents Ingredients Database): LC50/EC50 was evaluated equal to 885 mg/L and considered as readily biodegradable. Furthermore the substance has been registered per REACH regulation (ECHA website source):
Short-term toxicity to fish: LC50 (96 h) 54000 mg/L
Short-term toxicity to aquatic invertebrates: LC50 (48h) 1955 mg/mL
Toxicity to microorganism: EC50 (16 h) > 10000 mg/L

Fatty acids C_{≥14}-C_{≤22} (even numbered) are included in DID list (Detergents Ingredients Database): LC50/EC50 was evaluated equal to 100 mg/L and considered as readily biodegradable.

(X) Unavoidable impurities and possible traces of contaminants

SVHC (as per REACH regulation): absence
Heavy metals (randomly analysed with atomic absorption spectrophotometer): As, Cd, Co, Cr, Hg, Ni, Pb, Sb below 1 ppm. Total below 10 ppm
Pesticides: absence
GMO: absence
Food allergens (as per Regulation EU 1169/2011 Annex II) and gluten: absence (no starting materials containing food allergens or gluten are used in the product)
Latex: absence
Residual solvents: absence (not used)
Polycyclic Aromatic Hydrocarbons: absence
Free amines: absence
Phthalates: absence
Glycol ethers: absence
Formaldehyde: absence
Ethylene oxide: absence
Nanomaterials: absence
Monomers: absence
Proteins: absence
VOC (volatile organic components as per European and Swiss laws): Olifeel® Pearls does not contain any volatile organic compounds.
Other impurities or residues: absence

Absence: based upon data from our starting material suppliers and knowledge of the manufacturing process, we have no reason to believe that these substances are present.

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| (XI) Additives | <p>Neutralisers: no Preservatives: no Antioxidants: no Stabilisers: no Catalysts: no Bleaching agents: no Chelating agents: no Ethanol: no</p> |
| (XII) Ingredients origin | <p><u>Synthetic</u>: no <u>Animal</u>: no Animal Protection (Cites): NA <u>Vegetable</u>: yes Plant name: Olea Europaea Plant Protection (Cites): No Palm oil and derivatives: Absence Geographical origin of the raw materials; Europe GMO: We herewith declare that the raw materials and processing aids used in the production of Olifeel® Pearls does not contain or consist of GMO's and they are not produced from GMO's. Nagoya protocol: not applicable <u>Mineral</u>: no Biotechnological processing: no <u>Polymer</u>: No <u>Monomers</u>: No</p> |
| (XIII) Halal/Kosher | <p>We confirm that the product: - does not contain any substance of animal origin neither these substances are used during manufacturing process. - does not contain alcohol neither it is used during the manufacturing process. Roelmi HPC will communicate any Certifications obtained</p> |
| (XIV) Vegan/vegetarian | <p>We declare that Olifeel® Pearls does not contain any animal origin ingredients or animal derivatives.</p> |

PRODUCT INFORMATION

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| (XV) Properties | <p>Olifeel® Pearls is a powerful and versatile rheology modifier/gelling agent, able to thicken any anhydrous oily system at different percentages.</p> <p>Olifeel® Pearls is produced in a particularly user-friendly colorless pearls form, with very regular shape, which optimizes the safety for the operators and the work environment, also minimizing risk of contamination and waste.</p> <p>Olifeel® Pearls is able to replace all synthetic and semi-synthetic gelling agents for lipophilic phases.</p> <p>Furthermore, since it is a non-edible fraction, it does not compete for food or land with the food production.</p> <p>Olifeel® Pearls is compatible with the majority of the cosmetic ingredients. It has affinity with water-resistance silicones as we advise to use from 2 to 15%, even if it is possible to use it also in greater amounts, but in this case it is leading to extremely viscous effect and an application refrained on the finished product. In fact, besides the percentage of use, another factor is important in order to obtain various types of gels: the melting point of the oil in formulation. This means that the reaction creating a reticulum leading to high viscosity is increasing with the melting point of the oil.</p> <p>Concepts plus:</p> <ul style="list-style-type: none"> . 100% vegetable origin (from olive oil) . Oil soluble . Gelling agent at a low percentage of use . Stabilizing properties . Easy to use for its pearls form . Compatible with all kind of raw material . Particular affinity with the silicones. . Not endure oxidation. <p><u>PHISICO-CHEMICAL CHARACTERISTICS:</u></p> <p>The following parameters are found with the typical values indicated in several substances with the same chemical nature.</p> <p>The deviation from the typical values indicated has no effect on the stability, quality or efficacy of the product Olifeel® Pearls.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 35%;">Colour:</td> <td>From white to ivory</td> </tr> <tr> <td>Acidity (as free Oleic acid):</td> <td>≤ 2%</td> </tr> <tr> <td>Iodine number:</td> <td>≤ 5 g₂/100 g</td> </tr> <tr> <td>Palmitic acid:</td> <td>70-80 % w/w</td> </tr> <tr> <td>Stearic acid:</td> <td>20-30 % w/w</td> </tr> </table> | Colour: | From white to ivory | Acidity (as free Oleic acid): | ≤ 2% | Iodine number: | ≤ 5 g ₂ /100 g | Palmitic acid: | 70-80 % w/w | Stearic acid: | 20-30 % w/w |
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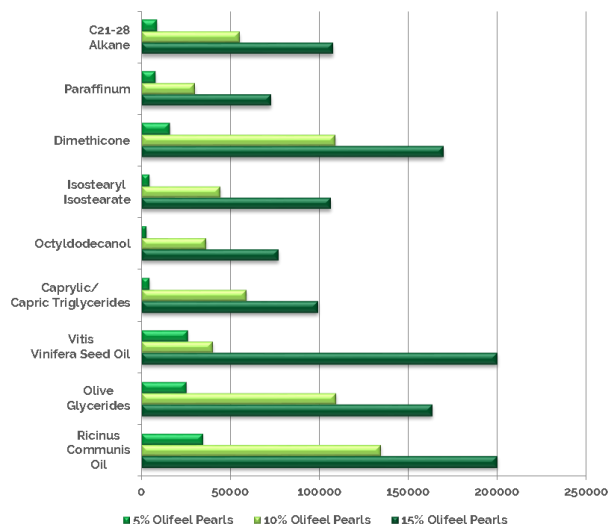
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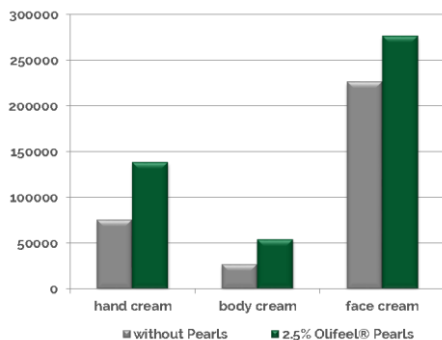
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| | <p>MICROBIOLOGICAL STABILITY</p> <p>Due to the knowledge of the manufacturing process (performed under high temperature) and of the chemical characterization of the product (absence of free water), Olifeel® Pearls can be considered exempted from microbiological contamination and possibility of microbial growth during the time.</p> |
| (XVI) Manufacturing flow chart | <pre> graph TD A[OLIVE FRUIT OIL NON EDIBLE FRACTION] --> B[DISTILLATION] B --> C[PURE FATTY ACIDS] C --> D["Vacuum, High temperature, Natural vegetal glycerin"] D --> E[ESTERIFICATION] E --> F[OLIFEEL® PEARLS] </pre> |
| (XVII) Specification | SDS available. |
| (XVIII) Material safety data sheet | MSDS available. |
| (XIX) Personal Care Applications and formulation | See marketing brochure |
| (XX) Efficacy test | <p>We never conducted tests of efficacy, but studies of gelation on the main oils used in cosmetics to determine its gelling power.</p> <p>The following graphics shows that with different percentage of Olifeel® Pearls viscosity is increasing creating an excellent affinity with the vegetable oils. The values show that with silicones and esters proper viscosity can be obtained, demonstrating the compatibility with most of cosmetic ingredients.</p> <p>Gelling effect of Olifeel® Pearls with various oils: proved gelling & stabilizer agent for the majority of cosmetic lipophilic ingredients, even from varied origins (natural, mineral or synthetic)</p> |

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Texturing & structuring effects, evaluation of the structuring capacities of Olifeel® Pearls in basic emulsions (hand, body and face creams) compared to placebo: increase of viscosity, compactness and homogeneity, more stability, nicer appearance a triglyceride emollient and creamy, comfortable not-greasy touch with a soft nourishing skin-feel.



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| (XXI) Storage and handling | Keep the product in the original container, well closed. Store in a cool and dry place (15°C - 30°C), protected from humidity, light or heat sources. Material do not need homogenisation before use. Stability: stable material. |
| (XXII) Shelf Life | 36 months from production date, in the sealed original container, if stored as described above. |

THE INFORMATION CONTAINED IN THIS DOCUMENT ARE BASED ON OUR CURRENT SCIENTIFIC KNOWLEDGE AND DOES NOT DISCHARGE THE USER FROM THE CONTROL OF THE PRODUCT BEFORE THE USE. THE INFORMATION ARE CAREFUL AND RELIABLE BUT IT SHOULD NOT BE TAKEN AS EXPRESSING OR IMPLYING ANY WARRANTY CONCERNING THE PRODUCT CHARACTERISTICS. THE USER, UNDER HIS OWN RESPONSIBILITY, MUST RESPECT THE RULES AND LAWS IN FORCE. ROELMI HPC SRL DOES NOT TAKE LIABILITY FOR ANY DAMAGE TO PEOPLE OR PROPERTY FOR IMPROPER USE AND DECLINES ANY RESPONSABILITY IN CASE THE USE OF THE PRODUCT INFORMATION MIGHT TAKE TO PATENT INFRINGEMENT OF THIRD PARTIES.

THE PRESENT DOCUMENT SUBSTITUTES AND CANCELS THE PREVIOUS VERSION.

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