

RAW MATERIAL DATA SHEET

Olifeel TD O/W

PRODUCT IDENTIFICATION

(I) Supplier name	ROELMI HPC SRL Legal office: Corso Europa, 60 - 20020 Solaro (MI) Italy T. +39 02 3351 0150 F. +39 02 3354 9210			
(II) EU/US INCI name	EU INCI name	US INCI name		
	Polyglyceryl-3 Stearate	Polyglyceryl-3 Stearate		
	Cetearyl Olivatate	Cetearyl Olivatate		
(III) Regulatory information	Empirical Formula: N.A. Chemical name: N.A.			
	Component name	CAS n.	EC n.	
		RANGE COMPOSITION %		
	Polyglyceryl-3 Stearate	27321-72-8 / 26855-43-6	248-403-2	≥ 50 ≤ 75
	Cetearyl Olivatate	-	-	≥ 25 ≤ 50
	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). See MSDS			
	Transport: not regulated.			
	Tariff code: 38249955			
(IV) Functions	Emulsifier for Oil min water formulations			
(V) Geographical origin	Produced in Italy			

REGULATORY STATUS

(VI) Chemical Inventory position	Preposition 65 (California): not listed
(VII) Cosmetic Regulatory Status	No restriction or limitation for personal care applications. Canadian cosmetic ingredient hotlist: not listed Component(s) listed in Cosmetic China IECIC: yes.
(VIII) Cosmetic Regulatory Conformity	<u>CMR</u> : OLIFEEL TD O/W does not contain any substances intentionally added and classified as Carcinogenic, Mutagenic or Reprotoxic substances <u>Allergens</u> : We certify that OLIFEEL TD O/W 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. <u>TSE/BSE</u> : We confirm that OLIFEEL TD O/W does not contain any animal raw material, therefore it is free from any BSE/TSE transmitting agents

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	<p><u>Animal testing</u>: We declare that no animal testing was made by Roelmi HPC & C. srl for cosmetic use accordingly to Regulation (EC) 1223/2009.</p> <p><u>Ionization</u>: the product is not subjected to ionization process</p> <p><u>REACH</u>: OLIFEEL TD O/W is a mixture whose components are pre-registered with deadline 2018</p>
(IX) Toxicology Ecotoxicity Biodegradability information	<p><u>Toxicological information</u></p> <p>- Tests for cosmetic safety evaluation</p> <p>-MTT assay for the evaluation of the cytotoxic potential: NON IRRITATING, -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): PRACTICALLY NOT IRRITANT</p> <p><u>Ecological & Biodegradability information</u> No data available</p>
(X) Unavoidable impurities and possible traces of contaminants	<p>SVHC: absence.</p> <p>Heavy metals (randomly analysed with atomic absorption spectrophotometer): As, Cd, Co, Cr, Hg, Ni, Pb, Sb below 1 ppm. Total below 10 ppm</p> <p>Pesticides : absence.</p> <p>GMO: absence.</p> <p>Food allergens (as per Directive 2007/68/C): absence</p> <p>Latex: allergens</p> <p>Residual solvents: absence (not used)</p> <p>Polycyclic Aromatic Hydrocarbons : absence.</p> <p>Free amines : absence.</p> <p>Phthalates: absence.</p> <p>Glycol ethers: absence.</p> <p>Formaldehyde: absence.</p> <p>Ethylene oxide: absence.</p> <p>Nanomaterials: absence.</p> <p>Monomers: absence.</p> <p>Proteins: absence</p> <p>VOC (volatile organic components as per European and Swiss laws): OLIFEEL TD O/W does not contain any volatile organic compounds</p> <p>Other impurities or residues : absence.</p> <p><u>Absence</u>: 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.</p>
(XI) Additives	<p>Neutralisers: no.</p> <p>Preservatives: no.</p> <p>Antioxidants: no.</p> <p>Stabilisers: no.</p> <p>Catalysts: no.</p> <p>Bleaching agents: no.</p> <p>Chelating agents: no.</p> <p>Ethanol: no</p>
(XII) Ingredients origin	<p><u>Synthetic</u>: No</p>

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Olifeel TD O/W

	<p><u>Animal</u>: no Animal Protection (Cites): NA <u>Vegetable</u>: yes (all the raw materials used for the synthesis of the components included in the mixture) Plant name: <i>Olea Europaea</i> for fatty acids used in Cetearyl olivate Plant Protection (Cites): No GMO: We herewith declare that the raw materials and processing aids used in the production of OLIFEEL TD O/W do not contain or consist of GMO's and they are not produced from GMO's. <u>Mineral</u>: no. <u>Biotechnological processing</u>: no. <u>Polymer</u>: No <u>Monomers</u>: No</p>
(XIII) Halal/Kosher	<p>OLIFEEL TD O/W is not certified Halal/Kosher. We confirm that the product:</p> <ul style="list-style-type: none"> - does not contain any substance of animal origin neither these substances are used during manufacturing process. - does not contain alcohol neither the alcohol is used during the manufacturing process. - Is completely separated from any substance of animal origin and/or containing alcohol during the manufacturing process, as well as in the warehouse.
(XIV) Vegan/vegetarian	<p>OLIFEEL TD O/W is suitable for vegan/vegetarian use</p>

PRODUCT INFORMATION

(XV) Properties	<p><u>HLB</u>: approx. 11 (suitable for all kind of O/W emulsions) <u>Emulsifying properties</u>: Starting from 5% of use, Olifeel® TD OW reveals auto-emulsifying properties. Viscosity demonstrates a linear correlation with the % of Olifeel® TD OW.</p> <table border="1"> <caption>Viscosity vs. Scalar dosage of Olifeel TD OW</caption> <thead> <tr> <th>Scalar dosage (%)</th> <th>Viscosity (cP)</th> </tr> </thead> <tbody> <tr> <td>2%</td> <td>~1100</td> </tr> <tr> <td>3%</td> <td>~1800</td> </tr> <tr> <td>4%</td> <td>~3200</td> </tr> <tr> <td>5%</td> <td>~4300</td> </tr> <tr> <td>6%</td> <td>~5500</td> </tr> </tbody> </table>	Scalar dosage (%)	Viscosity (cP)	2%	~1100	3%	~1800	4%	~3200	5%	~4300	6%	~5500
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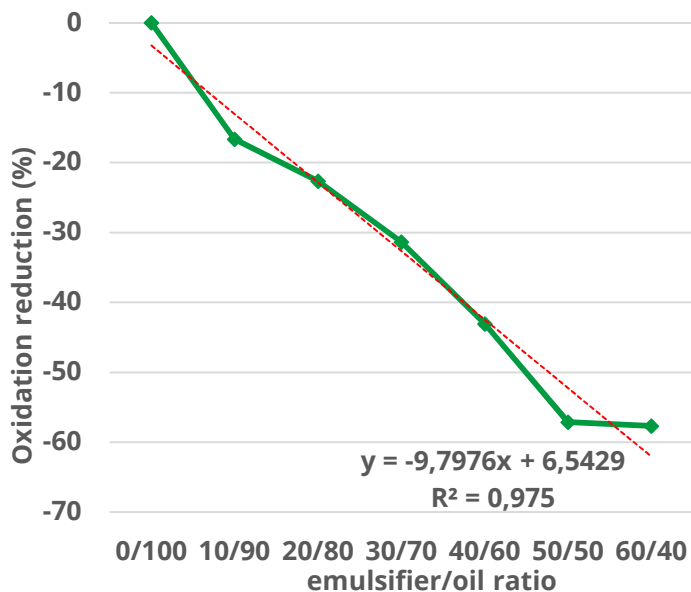
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Protection to oxidation

Internal trials confirm the ability of Olifeel® TD OW to protect the formula vs. oxidation, enhancing the stability and allowing the reduction of the antioxidant amount.

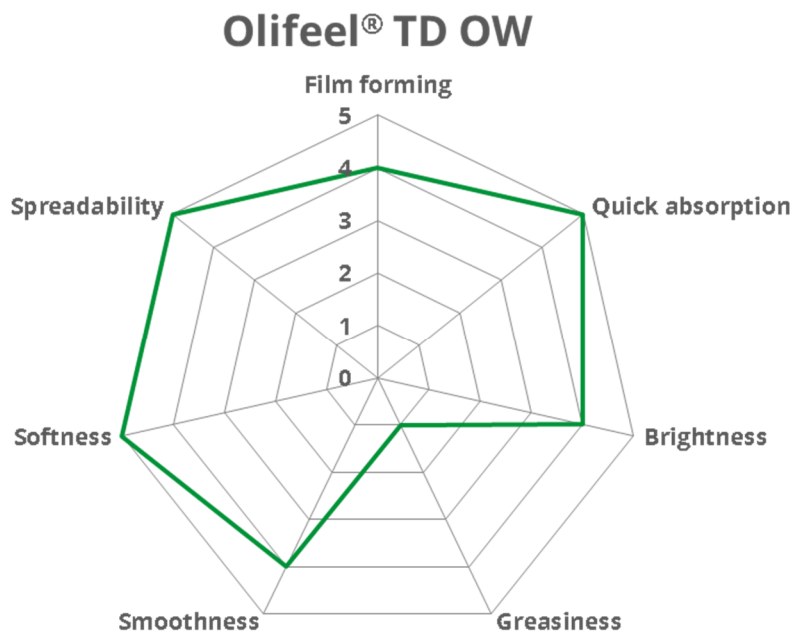
Oxidation reduction demonstrates a linear correlation with the % of Olifeel® TD OW



The test has been carried out by simulating the emulsion production process (approx. 70°C for 1h). the peroxide value has been measured on different blends of sweet almond oil with Olifeel® TD OW

Beneficial properties of Olifeel® TD OW:

Sensorial evaluation of Olifeel® TD OW behavior in an O/W emulsion



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	<p><u>MICROBIOLOGICAL STABILITY</u></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 TD O/W can be considered exempted from microbiological contamination and possibility of microbial growth during the time.</p>
(XVI) Manufacturing flow chart	<p>1) Esterification of cetearyl alcohol with fatty acids coming from non edible fraction of olive oil.</p> <p>2) Esterification of polyglycerin-3 with stearic acid</p> <p>3) Mixing under controlled operative conditions (temperature, time, sequence of addition)</p> <p>4) Pearls forming with specialized technology</p>
(XVII) Specification	SDS available.
(XVIII) Material safety data sheet	MSDS available.
(XIX) Personal Care Applications and formulation	See marketing brochure
(XX) Efficacy test	Not tested for efficacy.
(XXI) Storage and handling	<p>Keep the product in well-closed original packaging, in a fresh (below 30° C) place, protected from light, heat sources. Material do not need homogenisation before use.</p> <p>Stability: stable material.</p>
(XXII) Shelf Life	12 months from the production date, in the original sealed containers.

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