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RAW MATERIAL DATA SHEET

TechnoHYAL HyaPearl

	PRODUCT	IDENTIFICATIO	ON .			
(I) Supplier name	1	MI HPC SRL Operative & Legal Office: Via Celeste Milani, 2			0 Origgio	
	Italy					
	T. +39 02 3351 0150 F. +39 02 3354 9210					
(II) EU/US INCI name	EU INCI name	US INCI	name			
· ,	C10-18 TRIGLYCERIDES	C10-18 TRIG	LYCERIDES			
	SODIUM HYALURONATE	SODIUM HYALURONATE TRIOLEIN				
	TRIOLEIN					
	GLYCERYL DIOLEATE	GLYCERYL DIOLEATE				
(III) Dogulatory	Empirical Formula: NA					
(III) Regulatory information	Chemical name: NA					
	Common name	CAS n.	EC n.	Composition		
	C10-18 TRIGLYCERIDES	85665-33-4	288-123-8	≥50 ≤ 75		
	SODIUM HYALURONATE	9067-32-7	N.A	≥25 ≤ 50		
	TRIOLEIN	122-32-7	204-534-7	≥10 ≤ 25		
	GLYCERYL DIOLEATE	25637-84-7	247-144-2	≤ 5		
	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					
(IVA) Franctions	Tariff code: 15162098 Active ingredient for cosmetic	products				
(IV) Functions		products.				
V) Geographical origin	Produced in Italy					
	REGULA	TORY STATUS				
	Components listed in IECICS (C triglycerides, glyceryl dioleate) Components listed in TSCA (U:	hina): yes (Sodi	-			

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Components listed in NZIoC (New Zeland): yes (Sodium Hyaluronate, Triolein, glyceryl dioleate)

Components listed in TCSI (Taiwan): yes (Triolein, glyceryl dioleate)

Components listed in ENCS (Japan): yes (Triolein, glyceryl dioleate, C10-18 triglycerides) Components listed in KECI (Korea): yes (Triolein, C10-18 triglycerides, glyceryl dioleate) Components listed in PICCS (Philippines): yes (Triolein, C10-18 triglycerides, glyceryl dioleate)

Components listed in AICS (Australia): yes (Sodium Hyaluronate, Triolein, C10-18 triglycerides, glyceryl dioleate)

Components listed in DSL (Canada): yes (Sodium Hyaluronate, Triolein, C10-18 triglycerides, glyceryl dioleate)

Preposition 65 (California): no

(VII) Cosmetic No restrictions in Europe.

Regulatory Status

Other countries: TechnoHyal HyaPearl is accepted in most other legislative areas.

Please refer to your local legislation of interest.

Restriction or limitation for personal care applications: no

Canadian cosmetic ingredient hotlist: no

Component(s) listed in Cosmetic China IECIC: yes (Sodium Hyaluronate, Triolein, C10-18 triglycerides, glyceryl dioleate)

Regulatory

(VIII) Cosmetic Regulatory Conformity: TechnoHyal HyaPearl is in line with Cosmetics Regulation 1223/2009 and further amendments. It does not contain any of restricted or prohibited Conformity substances listed in Annex II and Annex III of cosmetics regulation.

> CMR: TechnoHyal HyaPearl does not contain any substances intentionally added and classified as Carcinogenic, Mutagenic or Reprotoxic substances

> Allergens: We certify that TechnoHyal HyaPearl 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.

> TSE/BSE: We confirm that TechnoHyal HyaPearl does not contain any animal raw material, therefore it is free BSE/TSE transmitting agents

> Animal testing: We declare that no animal testing was made by Roelmi HPC & C. srl for cosmetic use accordingly to Regulation (EC) 1223/2009.

<u>lonization</u>: the product is not subjected to ionization process

IFRA: TechnoHyal HyaPearl does not contain any substances mentioned in the IFRA-RIFM Code Practice.

REACH: TechnoHyal HyaPearl is a mixture not subjected to REACH obligations. Its

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- Sodium Hyaluronate: According to Article 2(9), polymers are exempted from the provisions on regulation of Title II of REACH. Sodium Hyaluronate meets the criteria set for a polymer defined in Article 3(5). Its monomers can be considered as non-isolated intermediates, for which REACH regulation is not applicable according to Article 2(1). Based on the available data, the criteria for exemption from REACH registration are fulfilled for Sodium Hyaluronate (CAS: 9067-32-7).
- Triolein and glyceryl dioleate come from a unique product exempted as per Annex IV of REACH (now Annex I of Regulation 987/2008). The product is obtained in such a way that "Glycerides, C16-18 and unsaturated C18 (CAS 67701-30-8)" and "Glycerides, C16-18 and unsaturated C18, mono- and di- (CAS 68424-61-3)" are obtained. The components are included in the above mentioned annex.
- C10-18 triglycerides: Registered with registration number 01-2119485968-12xxxx (under CAS number 68002-71-1)

(IX) Toxicology **Ecotoxicity** Biodegradability information <u>Toxicological information</u>

Tests for cosmetic safety evaluation (performed on raw materials)

Skin irritation test: NOT IRRITANT (method: MTT/ %Tested: Scalar concentration) Ocular irritation test: NOT IRRITANT (method: Red Blood Cell Test/ %Tested: 100% pure)

Skin sensitization test: NOT SENSITIZING (method: Insulted Repeated Patch test /

%Tested: Pure 100%)

Mutagenicity test: Not available

Photo toxicity test/ Photo allergenicity: test Not available

Bibliographic data

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Following our bibliographic research on our raw material, to date no scientific data and/or reference has been found which could be interpreted as a sign of toxicity. This lead us to assume it is not toxic when used at normal dose.

Ecological & Biodegradability information No data available on the mixture. Data found for raw materials:

C10-18 triglycerides (registration data, available on ECHA website (Glycerides, C16-18)):

- 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)

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

Triolein and glyceryl dioleate (based on data of similar products classified from ECHA: i.e. Glycerides, C14-18 and C16-18-unsatd. mono-, di- and tri-):

- Short term toxicity to fish: LC50 (48h) 1 10 g/L
- Short term toxicity to acquatic invertebrates: EL50 (48h) 100 mg/L
- Long term toxicity to aquatic invertebrates: NOELR (21 days) 10 mg/L LOELR (21 days) 10 mg/L
- Toxicity to aquatic algae and cyanobacteria: EL50 (72 h) 296 320 mg/L
- Toxicity to microorganism: EC50 (18 h) > 0,8 mg/L. The product has been tested until 0,8 mg/L and no inhibitory effects on cell multiplication of Pseudomonas putida could be observed up to this concentration.
 - Based on the characteristic of the product it is possible to predict that also to higher concentration (i.e 1 mg/L) no toxicity to microorganisms should be
- Biodegradability: Ready Biodegradability (OECD Guideline 301 B CO2 **Evolution Test)**

(X) Unavoidable SVHC (as per REACH regulation): absence

possible traces of Pesticides: absence contaminants GMO: absence

impurities and | Heavy metals: total ≤ 20 ppm

Food allergens (as per Regulation (EC) no. 1169/2011) and gluten: absence (no starting materials containing food allergens or gluten are used in the product).

Latex: absence

Residual solvents: yes (in sodium hyaluronate: maximum content 0.5% Ethanol)

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Polycyclic Aromatic Hydrocarbons: absence

Free amines: absence Phthalates: absence Glycol ethers: absence Formaldehyde: absence Ethylene oxide: absence Nanomaterials: absence Monomers: absence

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Proteins: see sds

VOC (volatile organic components as per European and Swiss laws): in sodium

hyaluronate maximum content 0.5% Ethanol

Gluten: absence Formalin: absence

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.

(XI) Additives | Neutralisers: no.

Preservatives (following annex V of Regulation (EC) NO. 1223/2009): no.

Antioxidants: no. Stabilisers: no. Catalysts: no.

Bleaching agents: no. Chelating agents: no.

Ethanol: yes (in sodium hyaluronate: maximum content 0.5% Ethanol)

(XII) Ingredients

origin

Synthetic: no

Animal: No

Animal Protection (Cites): NA

Vegetable: yes

Component name: Triolein, glyceryl dioleate, C10-18 triglycerides

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Plant name: Olea Europaea Plant protection (CITES): no Palm oil and derivates: no

GMO: We herewith declare that the raw materials and processing aids used in the production of TechnoHyal HyaPearl do not contain or consist of GMO's and they are not

produced from GMO's.

Nagoya Protocol: Not applicable

Mineral: No

Biotechnological processing: Yes

Component name: Sodium Hyaluronate

Strain used for biotechnological fermentation: Streptococcus equi subsp. Zooepidemicus

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Components of the fermentation broth:

Substrate/Organism	Origin	
Peptones	Wheat	
Glucose	Corn starch	
Yeast extract	Yeast	

<u>Polymer</u>: yes (Sodium Hyaluronate)

Monomers: no

(XIII) Halal/Kosher

We confirm that the product does not contain any substance of animal origin neither these substances are used during manufacturing process.

Roelmi HPC will communicate any Certifications obtained.

(XIV) Vegan/vegetarian We declare that TechnoHyal HyaPearl does not contain any animal origin ingredients or animal derivatives.

PRODUCT INFORMATION

(XV) Properties PHISICO-CHEMICAL CHARACTERISTICS

The following parameters are found with the typical values indicated in several substances with the same chemical nature.

The deviation from the typical values indicated has no effect on the stability, quality or efficacy of the product TechnoHYAL HyaPearl

Acid value: ≤ 5 mg KOH/g

Saponification value: 120 - 145 mg KOH/g Iodine value: 12 - 15 gl2/100g

45 - 55 °C Drop point:

Please refer to the corresponding marketing brochure for further information.

MICROBIOLOGICAL STABILITY

Due to the knowledge of the manufacturing process and of the chemical characterization of the product (low availability of free water), TechnoHyal HyaPearl can be considered at low risk of microbiological contamination and possibility of microbial growth during the time.

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(XVI) Manufacturing flow chart Olive fruit oil Raw material with Streptococcus spp T, Pressure Distillation Fermentation Crude H.A. Pure fatty acids Vacuum, High T, natural olive oli glycerin ▶ Esterification filtration & Dissolution Precipitation & refining Triolein - C10-18 triglycerides - Glyceryl dioleate Spray drying Sodium hyaluronate Despersion through a dedicated system Pearls making & packaging TechnoHyal Hyapearl (XVII) Specification | SDS available (XVIII) Material safety MSDS or equivalent statement available data sheet

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formulation

(XIX) Personal Care | Formulation information

Applications and The typical dosage is: 0.5 – 1.5 %

Its use is recommendable for the following cosmetic products:

- poured make-up;
- hydrating lipbalm, moisturizing lipstick.

Instruction to formulate by using TechnoHyal HyaPearl in a lipstick:

- 1. Melt all the oils and waxes of the finished product;
- 2. When the last high fusion wax is added and its drop point is reached, heat until 10°C more than the melting point, so everything will be perfectly melted and start cooling down;
- 3. Before reaching the dropping point, insert the TechnoHyal HyaPearl and let it completely dispersed by stirring;
- 4. Cool down until 10°C more than the melting point of the lipstick (mix of all) and start casting in the mold.

By this way, the mix will become solid in the mold and the TechnoHyal HyaPearl will be homogeneously dispersed.

The step of inserting the TechnoHyal HyaPearl has to be done while cooling down, so the solidifying process will trap the HA in its net, with a homogenous dispersion and not different layers.

Formula indications

Particular instructions for the use of TechnoHyal HyaPearl in cosmetic applications: Solubility:

Soluble in lipid phase.

Temperature:

The ingredient is not sensitive to usual temperature range. It can be heated up to 80° C for 1 to few hours before starting/accelerating degradation process.

Incorporation:

Add TechnoHyal HyaPearl under mechanical agitation in the lipid phase and heat it until approx. 55-60 °C till totally dispersed.

Compatibility:

TechnoHyal HyaPearl is compatible with the majority of the cosmetic ingredients pH range:

Not applicable

Other:

This ingredient is not highly hygroscopic, anyway we advise to maintain in closed packaging away from humidity.

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(XX) Efficacy test	Please refer to the corresponding marketing brochure		
(XXI) Storage,	Storage: keep the product in the original container well closed in fresh and dry		
packaging and	place (15°C - 30°C), repaired from humidity, light or heat sources.		
handling	ROELMI HPC srl declares that the primary packaging used for the product is suitable for		
	food contact and it complies with the European Regulations or comparable legislations.		
(XXII) Shelf Life	24 months from the production date		

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.

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