RAW MATERIAL DATA SHEET
ABWAX CANDELILLA LP

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

<table>
<thead>
<tr>
<th>EU INCI name</th>
<th>US INCI name</th>
</tr>
</thead>
<tbody>
<tr>
<td>HELIANTHUS ANNUSS SEED CERA</td>
<td>HELIANTHUS ANNUSS (SUNFLOWER) SEED WAX</td>
</tr>
<tr>
<td>SYNTHETIC WAX</td>
<td>SYNTHETIC WAX</td>
</tr>
</tbody>
</table>

(III) Regulatory information
Empirical Formula: N.A.
Chemical name: N.A.

<table>
<thead>
<tr>
<th>Common name</th>
<th>CAS n.</th>
<th>EC n.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HELIANTHUS ANNUSS (SUNFLOWER) SEED WAX</td>
<td>68937-99-5 / 1286686-34-7</td>
<td>232-273-9 / -</td>
</tr>
<tr>
<td>SYNTHETIC WAX</td>
<td>8002-74-2</td>
<td>232-315-6</td>
</tr>
</tbody>
</table>

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: 34049000

(IV) Functions
Binding, emollient, emulsion, viscosity controlling

(V) Geographical origin
Produced in Italy

REGULATORY STATUS

(VI) Chemical Inventory position
Component(s) listed in European inventory: yes *
Component(s) listed in TSCA (US): yes *
Component(s) listed in Canadian inventory: yes (Sunflower wax in NDSL, Synthetic wax in DSL)
Component(s) listed in AICS (Australia): yes (Synthetic wax), sunflower wax is exempted as is from natural origin.
Component(s) listed in ENCS (Japan): yes *
Component(s) listed in IECSC (China): yes (Synthetic wax), sunflower wax is exempted as is from natural origin
Component(s) listed in KECL (Korea): yes *
* Note: Sunflower wax was found with CAS 68937-99-5
Preposition 65 (California): not listed

(VII) Cosmetic Regulatory Status
No restriction or limitation for personal care applications.
Canadian cosmetic ingredient hotlist: not listed
Listed in China cosmetic inventory (IECIC): yes (HELIANTHUS ANNUUS (SUNFLOWER) SEED WAX, SYNTHETIC WAX)
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(VIII) Cosmetic Regulatory Conformity

CMR: ABWAX CANDELILLA LP does not contain any substances intentionally added and classified as Carcinogenic, Mutagenic or Reprotoxic substances.

Allergens: We certify that ABWAX CANDELILLA LP 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 ABWAX CANDELILLA LP does not contain any components of animal origin, therefore is free from any BSE/TSE.

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

Ionization: the product is not subjected to ionization process.

REACH: ABWAX CANDELILLA LP is a mix of components with the following status:

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>EC n.</th>
<th>CAS n.</th>
<th>status</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYNTHETIC WAX</td>
<td>232-315-6</td>
<td>8002-74-2</td>
<td>registered (01-2119488075-32-xxxx)</td>
</tr>
</tbody>
</table>

(IX) Toxicology

Ecotoxicity

Biodegradability information

Toxicological information (bibliographic data)

Vegetable waxes

Ingestion: Non-toxic.

Skin Irritation: Non-irritating

Eye Irritation: May cause slight irritation

Synthetic wax

Acute Oral Toxicity: Expected to be of low toxicity: LD50 > 5000 mg/kg, Rat

Acute Dermal Toxicity: Expected to be of low toxicity: LD50 > 2000 mg/kg, Rat

Acute Inhalation Toxicity: Not expected to be a hazard.

Skin Corrosion/Irritation: Expected to be non-irritating to skin.

Serious Eye Damage/Irritation: Expected to be non-irritating to eyes.

Respiratory Irritation: Inhalation of vapors or mists may cause irritation to the respiratory system.

Respiratory or Skin Sensitization: Not expected to be a sensitizer.

Ecological & Biodegradability information (bibliographic data: ECHA source)

Ecotoxicity: do not introduce the product in sewer or superficial waters. The components are expected to be inherently biodegradable. The product is insoluble in water. It separates for sedimentation. If it enters soil, it will adsorb to soil particles and will not be mobile. Expected non to be PBT and vPvB.

(X) Unavoidable impurities and possible traces of contaminants

SVHC: 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.
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### ABWAX CANDELILLA LP

<table>
<thead>
<tr>
<th>Attributes</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GMO</strong></td>
<td>absence</td>
</tr>
<tr>
<td><strong>Food allergens (as per Directive 2007/68/C)</strong></td>
<td>absence</td>
</tr>
<tr>
<td><strong>Latex</strong></td>
<td>allergens</td>
</tr>
<tr>
<td><strong>Residual solvents</strong></td>
<td>absence (not used)</td>
</tr>
<tr>
<td><strong>Polycyclic Aromatic Hydrocarbons</strong></td>
<td>absence</td>
</tr>
<tr>
<td><strong>Free amines</strong></td>
<td>absence</td>
</tr>
<tr>
<td><strong>Phthalates</strong></td>
<td>absence</td>
</tr>
<tr>
<td><strong>Glycol ethers</strong></td>
<td>absence</td>
</tr>
<tr>
<td><strong>Formaldehyde</strong></td>
<td>absence</td>
</tr>
<tr>
<td><strong>Ethylene oxide</strong></td>
<td>absence</td>
</tr>
<tr>
<td><strong>Nanomaterials</strong></td>
<td>absence</td>
</tr>
<tr>
<td><strong>Monomers</strong></td>
<td>absence</td>
</tr>
<tr>
<td><strong>Proteins</strong></td>
<td>absence</td>
</tr>
<tr>
<td><strong>VOC (volatile organic components as per European and Swiss laws)</strong></td>
<td>ABWAX CANDELILLA LP does not contain any volatile organic compounds</td>
</tr>
<tr>
<td><strong>Other impurities or residues</strong></td>
<td>MOSH/MOAH absence</td>
</tr>
<tr>
<td><strong>Absence</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>

#### (XI) Additives

- Neutralisers: no.
- Preservatives: no.
- Antioxidants: no.
- Stabilisers: no.
- Catalysts: no.
- Bleaching agents: no.
- Chelating agents: no.
- Ethanol: no.

#### (XII) Ingredients origin

- **Synthetic**: yes (Synthetic wax)
- Ingredients origin: manufacturing of synthesis gas followed by Fischer Tropsch process, distillation and hydrogenation of wax fractions
- **Animal**: no
- **Animal Protection (338/97 or CITES)**: NA
- **Vegetable**: Yes (Sunflower wax)
- **Plant name**: Helianthus annuus
- Extraction Process: extraction and refining of the oil, winterization to let the waxy layer divides from the oil, deoiling, degumming, purification and natural discoloration
- **Plant protection (338/97 or CITES)**: No
- **GMO**: No
- **Mineral**: no
- **Petrochemical**: no
- **Biotechnological processing**: no.
- **Polymer**: no.

#### (XIII) Halal/Kosher

- ABWAX CANDELILLA LP is not certified Halal/Kosher.
- We confirm that the product:
  - does not contain alcohol neither the alcohol is used during the manufacturing
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- does not contain any substance of animal origin neither these substances are used during 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
ABWAX CANDELILLA LP is suitable for vegan/vegetarian use

PRODUCT INFORMATION

(XV) Properties
Substitute of natural candellilla wax with no side effects on local agriculture and populations, safe for people and environment, promotion of eco-sustainability, no fluctuations.
Remarkable brilliance & gloss, hardness, solidity, strong gelling agent behavior, improvement of oils absorption, formula cohesion, emolliency and film forming.

MICROBIOLOGICAL STABILITY
Due to the knowledge of the manufacturing process (performed under high temperature) and of the chemical characterization of the product (absence of free water), ABWAX CANDELILLA LP can be considered exempted from microbiological contamination and possibility of pathogens growth during the time.

(XVI) Manufacturing flow chart
Mix of raw materials in a suitable sequence and under controlled parameters. The mass in then converted into pearls.

(XVII) Specification
SDS available.

(XVIII) Material safety data sheet
MSDS available.

(XIX) Personal Care Applications and formulation
See marketing brochure

(XX) Efficacy test
No tested for efficacy

(XXI) Storage and handling
Keep the product in the original container well closed in fresh (below 30° C) and dry place, repaired from humidity, light or heat sources.
Stability: stable material.

(XXII) Shelf Life
24 months from the production date, in the original sealed containers.

THE INFORMATION CONTAINED IN THIS RAW MATERIAL DATA SHEET ARE BASED ON OUR CURRENT SCIENTIFIC KNOWLEDGE. THE INFORMATION ARE CAREFUL AND RELIABLE BUT IT SHOULD NOT BE TAKEN AS EXPRESSING OR IMPLYING ANY WARRANTY CONCERNING THE PRODUCT CHARACTERISTICS. THE RULES AND LAWS IN ACT MUST BE RESPECTED BY PRODUCT USER, UNDER HIS OWN RESPONSIBILITY. ROELMI HPC SRL DECLINES ANY RESPONSIBILITY IN CASE THE USE OF THIS PRODUCT INFORMATION MIGHT TAKE TO PATENT INFRINGEMENT.

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