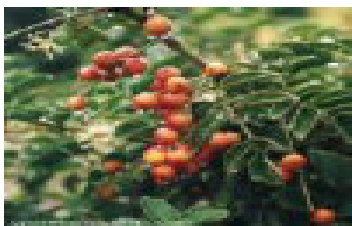




TECHNICAL DATA SHEET



CHILEAN HAZELNUT VIRGIN V.O.

Gevuina avellana Mol.

PRESENTATION :

The Chilean Hazelnut is the fruit of the Chilean hazelnut tree which the Latin name is *Gevuina avellana Mol.* (synonym : *Guevina avellana*). Its name is due to its likeness with the hazelnut Europe tree (*Corylus avellana*); but these 2 fruits are issued from different trees belong to different botanic family. The Chilean hazelnut is a tree which grows only in the south of Chile.

COSMETIC PROPERTIES :

✗ The Chilean hazelnut oil has a **composition very closed to mammal land oil** like the mink : it can be an **excellent substitute** to the use of animal oils.

✗ Chilean hazelnut oil, as plenty of vegetable oils, decrease the drying up and desquamation of the skin, improve the softness. Due to the presence of **37 to 48 % of oleic acid**, the Chilean hazelnut can be stop slow the **lipidic per oxidation**.

✗ Its high difference with the other oil is his palmitoleic value 24% **easily absorbed** and good conductor of other component, she prevents the desquamation of the skin.

✗ Its value in **Vitamin A** equivalent to retinol 22, has a favourable action on **cellular regeneration** and its value in **vitamin E** acts as **antioxidant**.

✗ This Oil has also the capacity to be a **natural solar protector** of the **UVA** and **UVB** rays equivalent to a factor 30 of the synthetic filter.

The Chilean hazelnut is mainly used in cosmetic products in United State, Japan and France for its occlusive effects.

REGULATION :

INCI : *Gevuina avellana Mol.*
CTFA : *Chilean Hazelnut oil, Avellana Chilean Oil*

ORGANOLEPTIC CHARACTERISTICS :

APPEARANCE :	Bright yellow liquid
ODOUR :	Characteristic
OBTENTION :	The fruits are washed, dried and shelled. The seeds are sorted and mixed. A new dry of the seed are done before pressed. The oil is finally extracted by cold pressed and filtration.
ORIGIN :	Chile

PHYSICAL CHARACTERISTICS :

SPECIFIC GRAVITY 20°C :	0.914 - 0.929																				
REFRACTIVE INDEX 20°C:	1.4679 – 1.4698																				
SAPONIFICATION INDEX :	183 – 197 mg KOH/g																				
IODINE INDEX :	83 – 91 gI ₂ / 100g																				
SOLUBILITY :	Insoluble in water and soluble in organic solvents.																				
CONTENT in mg/kg:	Beta-carotene 32.03 +/-0.8 Alpha carotene >10																				
FATTY ACID (%) +/- 2% :	<table> <tr> <td>Palmitic acid C16 :0</td> <td>4.10</td> </tr> <tr> <td>Palmitoleic acid C16 :1</td> <td>22.70</td> </tr> <tr> <td>Stearic acid C18 :0</td> <td>0.80</td> </tr> <tr> <td>Oleic acid C18 :1</td> <td>42.10</td> </tr> <tr> <td>Linoleic acid C18 :2</td> <td>9.20</td> </tr> <tr> <td>Eicosanoic acid C20 :0</td> <td>6.30</td> </tr> <tr> <td>Linolenic acid C18 :3</td> <td>2.50</td> </tr> <tr> <td>Eicosaenoic acid C20 :1</td> <td>1.70</td> </tr> <tr> <td>Docosanoic acid C22 :0</td> <td>1.90</td> </tr> <tr> <td>Erucic acid C22 :1</td> <td>7.90</td> </tr> </table>	Palmitic acid C16 :0	4.10	Palmitoleic acid C16 :1	22.70	Stearic acid C18 :0	0.80	Oleic acid C18 :1	42.10	Linoleic acid C18 :2	9.20	Eicosanoic acid C20 :0	6.30	Linolenic acid C18 :3	2.50	Eicosaenoic acid C20 :1	1.70	Docosanoic acid C22 :0	1.90	Erucic acid C22 :1	7.90
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STORAGE : Store this product protected from light, in tightly closed container, at stable and moderated temperature.

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