

# Chios Gum Mastic - Chios Mastiha

## Technical Specifications

Date of issue: 25/08/2005

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### 1. Product Identification

**Product Code:**

**Product Name:** Chios Gum Mastic - Chios Mastiha

**Natural product:** Yes

### 2. Product Description

Chios Gum Mastic (Chios Mastiha), is the air-dried resinous exudation from *P. Lentiscus L.* (Family Anacardiaceae), a shrub of small evergreen tree. The tree is native to the Mediterranean region and principally cultivated on the Greek island of Chios.

**Natural occurrence:** Yes  
**CAS Name:** Mastic Gum  
**CAS Number:** 061789-92-2  
**EINECS:** 263-098-6

### 3. Food Legislation Information

The Council of Europe (1981) included mastic in the list of plants and parts thereof, which are acceptable for use in foods.

### 4. Product Characteristics

**Organoleptic Properties:**

**Physical form:** Natural Resin – Elastic Gum.  
**Appearance:** Transparent/opaque crystalline granules in a teardrop shape.  
**Colour:** off-white to yellowish.  
**Odour:** balsamic, green and rustic odour.





### Physical Properties:

Density { $d_{20}$ }	0,96 – 1,08 gr/ml (20 °C)
Softening Point:	45-55 °C
Melting Range:	85-105 °C
Moisture:	Max 1.5 %
Total Ash (550°C):	Max 0,2 %
Natural Impurities:	Max 1,5 %
Chromatic Parameters:	L: 60.00 - 70.00 a: 1.00 - 4.00 b: 10 .00 - 20.00
Acidity Index:	50 - 60
Saponification Value:	70-85
Solubility:	Insoluble in water (~1%). Soluble in: isopropyl alcohol, acetone, hexane, methanol, chloroform, diethyl ether, n-butyl ether

### Chemical Composition:

Compound	Composition (%)
<i>Essential Oil – Mastic Oil</i>	1 – 3
<i>Masticdienonic acid</i>	10 – 15
<i>Isomasticdienonic acid</i>	10 – 15
<i>Other triterpenic acid, aldehydes &amp; alcohols</i>	45 – 55
<i>Poly -β-myrcene (natural Polymer)</i>	20 – 25

(typical analysis of different batches)

### Microbiological Properties:

Chios Mastic Gum does not contain any pathogenic organism or their metabolic products in amounts, which is harmful to the health of the final consumer.

Microbiological Parameters	Measured Limit
Total Count	< 1000 col/g
Yeast & Moulds	< 10 col/g
Coliform	< 10 col/g
E-Coli	< 10 col/g
Salmonella	Absent in 100 gr.

(typical analysis of different batches)





ΕΝΩΣΗ  
ΜΑΣΤΙΧΟΠΑΡΑΓΩΓΩΝ ΧΙΟΥ  
THE CHIOS GUM MASTIC  
GROWERS ASSOCIATION

### **Heavy Metals:**

<b>Heavy Metals</b>	<b>Measured Limit</b>
<i>Cadmium</i>	<0.05 mg/Kg
<i>Lead</i>	<0.3 mg/Kg
<i>Mercury</i>	<0.05 mg/Kg
<i>Arsenic</i>	<0.05 mg/Kg

*(typical analysis of different batches)*

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### **5. Danger identification**

No specific hazard known

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### **6. Shelf Life**

Stable at least for 24 month if stored tightly closed in the original containers, in a dry & cool place (< 7°C), way from light.

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### **7. Packaging:**

Chios Mastic Gum (Chios Mastiha) is available in different weights and various types of packaging under request.

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### **8. Additional Data:**

- The product is 100% natural and it does not contain Genetically Modified Organisms and/or any products derived from such organisms.

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This product corresponds with the regulations of the European food legislations. This specification is carefully drawn up and represents our current knowledge. However, we are not liable for any damage resulting from wilful acts or gross negligence. We guarantee therefore a proper quality within our general conditions of sales.



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