



Mastic Oil – Mastiha Oil

Technical Specifications

Date of issue: 25/02/2005

Pages: 4

1. Product Identification

Product Code: 321001
Product Name: Mastic Oil (Mastiha Oil)
Natural product: Yes

2. Product Description

Mastic Oil comes out through distillation process with water, it is **100% natural**, does not contain any harmful substance or any additives, which could have damaging effects for the consumer.

Natural occurrence: From Mastic Gum (Mastiha) 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.

CAS Name: Lentisque absolute
CAS Number: 61789-92-2
EINECS: 263-098-6

3. Food Legislation Information

Mastic Oil is manufactured according to the legislation at present in force in this country and the specifications of this company, being fit for human consumption at the dose recommended for its use. The usage of this product in certain applications depends on local interpretations concerning foodstuffs.





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: Resinous liquid.
Colour: Colourless to faintly yellow.
Odour: Balsamic, green and rustic odour.

Physical Properties:

Density { d_{20} }: 0,83 - 0,87 gr/ml (20 °C)
Flash point: +105 °C

(Parameters not routinely checked)

Reactive Index { n_D^{20} }: 1,4640 - 1,4680
Optical Rotation [α]_D: +35° - +40°
Chromatic Parameters: L: 90.00 - 105.00
a: -15.00 - 5.00
b: 0.00 - 25.00
Total Acidity (as oleic acid): 0,06 – 0,09 %
Saponification Value: *
Freezing Point: below 0 °C

Typical Chemical Composition*:

Evaluated by gas chromatography – mass spectrometry (GC-MS) technique

Compound	Composition (%)
<i>a-pinene</i>	70 – 85
<i>β-myrcene</i>	10 – 18
<i>β-pinene</i>	2 – 3,5
<i>Limonene</i>	0,5 – 1,5
<i>β-caryophyllene</i>	0,3 – 1,2
<i>Camphene</i>	0,2 – 1

* Compounds with concentration above 0,5% referred only. The aforementioned concentration limits is based on data available to us, however they should not be account as strictly quality specifications, since Mastic Oil is natural product, very sensible in quality and weather condition variations, which may affect significantly the concentration of its main ingredients.



Microbiological Properties:

Mastic Oil does not contain any pathogenic organism or their metabolic products in amounts, which is harmful to the health of the final consumer. Additionally, this product presents antimicrobial and antifungal activity independently confirmed and published in scientific papers.

Heavy Metals:

Compound	Measured Limit	Detection Limit
<i>Cadmium</i>	<0.015 mg/Kg AAS	0.015 mg/Kg
<i>Lead</i>	<0.1 mg/Kg AAS	0.1 mg/Kg
<i>Mercury</i>	<0.04 mg/Kg AAS	0.04 mg/Kg
<i>Arsenic</i>	<0.1 mg/Kg AAS	0.1 mg/Kg

5. Danger identification

No specific hazard known

6. Shelf Life

Stable for 12 month if stored tightly closed in the original containers, in a dry & cool place (> 7°C), away from light.

7. Safety & Handling Instructions

Handle in well ventilated areas, avoid eyes or skin contact. Keep it away from source of heat, sparks and naked flame. It is advised to use glasses and gloves, not to breathe the emitted vapours. Close container tightly after using.

8. Packaging:

Mastic Oil is supplied in aluminium internal lacquered containers.
Net Weights: 50, 100, 500, 1000 g

9. Additional Data:





ΕΝΩΣΗ
ΜΑΣΤΙΧΟΠΑΡΑΓΩΓΩΝ ΧΙΟΥ
THE CHIOS GUM MASTIC
GROWERS ASSOCIATION

- Mastic Oil exhibits a high level of fluidity.
- The product presents a very promising antimicrobial and antifungal activity.
- The product does not contain Genetically Modified Organisms and/or any products derived from such organisms.

Printing Date: Friday, 21 October 2005

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.



K. MONOMACHOU 1
T.Θ. 110, ΧΙΟΣ 82100
ΤΗΛ.: 22710 21001-2-3
FAX: 22710 26700
e-mail: exports@gummastic.gr
www.gummastic.gr

1, K. MONOMACHOU str
P.O. BOX 110
82100 CHIOS, GREECE
TEL: +30 22710 21001-2-3
FAX: +30 22710 26700
VAT: EL 096000437