



## Material safety data sheet

According to EU Regulation 1907/2006 in the current version

### PURE MYRRH ESSENTIAL OIL

#### 1. Identification of the substance/mixture and company

Trade name:	Pure Myrrh essential oil Natural product obtained by steam distillation of the gum (resin).
I.N.C.I.	Commiphora Myrrha oil
CAS No. :	84929-26-0
EINESCS No. :	284-510-0
REACH registration No. :	01-2120763990-45
Utilization:	Raw material for cosmetic or professional use
Supplier company identification:	<b>Elemental SRL</b> , Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania Tel/Fax: +40259-436.755, www.elemental.eu
Emergency:	RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București. International emergency number: +49 180 2273-112

#### 2. Hazards Identification

##### 2.1 Classification of the substance or mixture

Classification according to EC Reg. 1272/2008 (Norm. GHS-CLP)  
Flammable liquids, Category 3  
Acute toxicity (oral), Category 4  
Hazardous to the aquatic environment — Chronic Hazard, Category 3

The full text of the risk phrases and precautionary phrases cited below is shown in point 16 of this sheet.

Hazards: H226 – H302 – H412  
Precautions: P210 – P501 – P403+P235 – P273 – P301+P312 – P270  
Special instructions: none

Adverse physicochemical, human health and environmental effects

- Flammable liquid and vapor.
- Harmful if swallowed.
- Harmful to aquatic life with long lasting effects.

##### 2.2 Label elements

Hazard pictograms:



Hazard statement:

H226 – Flammable liquid and vapor.  
H302 – Harmful if swallowed.  
H412 – Harmful to aquatic life with long lasting effects.

Precautionary statement:

P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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P501 – Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.  
P403+P235 – Store in a well-ventilated place. Keep cool.  
P273 – Avoid release to the environment.  
P301+P312 – IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  
P270 – Do not eat, drink or smoke when using this product.

Special instructions: none

### 2.3 Other hazards

No additional information available.

## 3. Declaration of ingredients

The product contains the following ingredients:

Substance	C.A.S.	EINECS	Hazard symbols	Percent %
Pure Myrrh essential oil	84929-26-0	284-510-0	H226, H302, H412	100%

## 4. First aid measures

### 4.1 Description of first aid measures

In case of contact with skin: Rinse skin with water/shower. Take off immediately all contaminated clothing. If symptoms persist call a doctor.

In case of contact with eyes: In case of contact, immediately rinse eyes with plenty of water for at least 15 minutes. If symptoms persist call a doctor. Rinse eyes with water as a precaution.

In case of inhalation: Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. When in doubt or if symptoms are observed, get medical advice.

In case of ingestion: Obtain emergency medical attention. Rinse mouth thoroughly with water. Do NOT induce vomiting. Rinse mouth. Call a poison center or a doctor if you feel unwell.

### 4.2 Main symptoms and effects, both acute and delayed

No additional information available.

### 4.3 Indication to consult a physician immediately or any special treatments

Treat symptomatically.

## 5. Fire fighting measures

### 5.1 Means of extinction

Suitable extinguishing media: Foam, carbon dioxide, dry chemical, water spray, dry powder.

Unsuitable extinguishing media: Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

Fire hazard: Flammable liquid and vapor.

Hazardous decomposition products in case of fire: Toxic vapors must be avoided during fire. Respiratory protection equipment may be necessary. Use water spray or fog for cooling exposed containers.



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### 5.3 Recommendations for fire-fighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment: self-contained breathing apparatus, complete protective clothing.

## 6. Accidental release measures

### 6.1 Personal precautions, protective devices and emergency procedures

General measures: Do not get in eyes, on skin, or on clothing. Do not smoke. Avoid contact with hot surfaces.

For non-emergency personnel

- Emergency procedures: Ventilate spillage area. No open flames, no sparks, and no smoking.

For emergency responders

- Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8.

### 6.2 Environmental precautions

Avoid release to the environment. Prevent liquid from entering sewers, watercourses, underground or low areas.

### 6.3 Methods and materials for containment and remediation

Methods for cleaning up: Take up liquid spill into absorbent material. Contain spilled material, cover with an inert, noncombustible, inorganic, absorbent material and destroy according to the regulation in force. Notify authorities if product enters sewers or public waters.

Other information: Dispose of materials or solid residues at an authorized site.

### 6.4 Reference to other sections

For further information refer to section 13.

## 7. Handling and storage

### 7.1 Precautions for safe handling

Ensure good ventilation of the work station. Wear personal protective equipment. Apply according to good manufacturing and industrial hygiene practices. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2 Conditions for safe storage, including any incompatibilities

Technical measures: Ground/bond container and receiving equipment.

Storage conditions: Keep container tightly closed. Store locked up. Store in dry, cool, well-ventilated area.

Keep away from open flames, hot surfaces and sources of ignition. Store in a dark area.

Keep in original containers closed. Store in a well-ventilated place. Keep cool.

Maximum storage period: 24 months from dispatch date, under normal storage conditions.

### 7.3 Specific end uses



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No additional information available.

## 8. Exposure controls / personal protection

### 8.1 Control parameters

No additional information available.

### 8.2 Exposure controls



Appropriate engineering controls: Ensure good ventilation of the work station.

Hand protection: Wear protective gloves.

Skin protection: Wear suitable protective clothing.

Respiratory protection: Avoid breathing the product directly.

Eye protection: Wear safety glasses.

Environmental exposure controls: Avoid release to the environment.

## 9. Physical and chemical properties

### 9.1 Information on physical and chemical properties

Physical state: liquid

Appearance: viscous liquid at room temperature

Color: yellow, amber, brown, greenish

Odor: balsamic, resinous, mushroomy, damp, syrupy

Odor threshold: No data available

pH: No data available

Relative evaporation rate (butylacetate=1): No data available

Melting point: Not applicable

Freezing point: No data available

Boiling point: No data available

Flash point: 56 °C

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Flammability (solid, gas): Not applicable

Vapor pressure: No data available

Relative vapor density at 20 °C: No data available

Relative density: 0.99 - 1.04

Solubility: No data available

Log Pow: No data available

Viscosity, kinematic: No data available

Viscosity, dynamic: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Explosive limits: No data available

### 9.2 Other information



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Refractive index: 1.52 - 1.531

## 10. Stability and reactivity

### 10.1 Responsiveness

Flammable liquid and vapor.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of dangerous reactions

None under recommended storage and handling conditions (see section 7).

### 10.4 Conditions to avoid

Avoid heat sources. Avoid high temperatures. Avoid contact with hot surfaces. No heat, no flames, no sparks. Eliminate all sources of ignition.

### 10.5 Incompatible materials

Strong acids. Oxidizing agent. Alkaline medium.

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity (oral): Harmful if swallowed.

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified

#### **Myrrh essential oil**

LD50 dermal rabbit  $\approx$  1650 mg/kg

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

## 12. Ecological information

### 12.1 Toxicity

Ecology - general: Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity: Not classified

Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects.

### 12.2 Persistence and degradability



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No additional information available.

12.3 Bioaccumulation potential

No additional information available.

12.4 Ground mobility

No additional information available.

12.5 Results of PBT and vPvB assessment

No additional information available.

12.6 Other adverse effects

No additional information available.

**13. Disposal considerations**

13.1 Waste treatment methods

Regional legislation (waste): Disposal must be done according to official regulations.

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information: Flammable vapors may accumulate in the container.

Ecology - waste materials: Avoid release to the environment.

**14. Transport information**

ADR / RID		IMDG		IATA	
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14.1 UN number

ADR: 1169

IMDG: 1169

IATA: 1169

Customs Code: 3301294100

14.2 UN shipping name

ADR: EXTRACTS, AROMATIC, LIQUID

IMDG: EXTRACTS, AROMATIC, LIQUID

IATA: EXTRACTS, AROMATIC, LIQUID

14.3 Class of danger for transport

ADR: 3

IMDG: 3

IATA: 3

14.4 Packing group

ADR: III

IMDG: III

IATA: III



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#### 14.5 Environmental hazards

Not applicable

#### 14.6 Special precautions for users

##### Overland transport

Classification code (ADR): F1

Special provisions (ADR): 601

Limited quantities (ADR): 5I

Excepted quantities (ADR): E1

Packing instructions (ADR): P001, IBC03, LP01, R001

Mixed packing provisions (ADR): MP19

Portable tank and bulk container instructions (ADR): T2

Portable tank and bulk container special provisions (ADR): TP1

Tank code (ADR): LGBF

Vehicle for tank carriage: FL

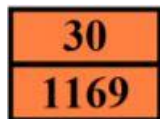
Transport category (ADR): 3

Special provisions for carriage - Packages (ADR): V12

Special provisions for carriage - Operation (ADR): S2

Hazard identification number (Kemler No.): 30

Orange plates:



Tunnel restriction code (ADR): D/E

EAC code: 3YE

##### Transport by sea

Special provisions (IMDG): 223, 955

Limited quantities (IMDG): 5 L

Excepted quantities (IMDG): E1

Packing instructions (IMDG): P001, LP01

IBC packing instructions (IMDG): IBC03

Tank instructions (IMDG): T2

Tank special provisions (IMDG): TP1

EmS-No. (Fire): F-E

EmS-No. (Spillage): S-D

Stowage category (IMDG): A

Properties and observations (IMDG): Usually consist of alcoholic solutions. Miscibility with water depends upon the composition.

##### Air transport

PCA Excepted quantities (IATA): E1

PCA Limited quantities (IATA): Y344

PCA limited quantity max net quantity (IATA): 10L

PCA packing instructions (IATA): 355

PCA max net quantity (IATA): 60L

CAO packing instructions (IATA): 366

CAO max net quantity (IATA): 220L

Special provisions (IATA): A3

ERG code (IATA): 3L



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**Inland waterway transport**

Classification code (ADN): F1  
Special provisions (ADN): 601  
Limited quantities (ADN): 5 L  
Excepted quantities (ADN): E1  
Equipment required (ADN): PP, EX, A  
Ventilation (ADN): VE01  
Number of blue cones/lights (ADN): 0

**Rail transport**

Classification code (RID): F1  
Special provisions (RID): 601  
Excepted quantities (RID): E1  
Packing instructions (RID): P001, IBC03, LP01, R001  
Mixed packing provisions (RID): MP19  
Portable tank and bulk container instructions (RID): T2  
Portable tank and bulk container special provisions (RID): TP1  
Tank codes for RID tanks (RID): LGBF  
Transport category (RID): 3  
Special provisions for carriage – Packages (RID): W12  
Colis express (express parcels) (RID): CE4  
Hazard identification number (RID): 30

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code  
Not applicable

**15. Regulatory information**

15.1 Regulations and legislation on health, safety and environment specific to the substance or mixture

EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:	
Reference code	Applicable on
3.	Pure Myrrh essential oil
3(a)	Pure Myrrh essential oil
3(b)	Pure Myrrh essential oil
3(c)	Pure Myrrh essential oil

Pure Myrrh essential oil is not on the REACH Candidate List  
Pure Myrrh essential oil is not on the REACH Annex XIV List  
Pure Myrrh essential oil is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.  
Pure Myrrh essential oil is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.2 Chemical safety assessment.  
No chemical safety assessment has been carried out.

**16. Additional information**

16.1 Abbreviations:





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ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
CAS: Chemical Abstracts Service (division of the American Chemical Society).  
CLP: Classification, Labeling, Packaging.  
DNEL: Derived No Effect Level.  
EINECS: European Inventory of Existing Commercial Chemical Substances.  
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
IATA: International Air Transport Association.  
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
ICAO: International Civil Aviation Organization.  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
IMDG: International Maritime Code for Dangerous Goods.  
INCI: International Nomenclature of Cosmetic Ingredients.  
LTE: Long-term exposure.  
PNEC: Predicted No Effect Concentration.  
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
STE: Short-term exposure.  
STEL: Short Term Exposure limit.  
STOT: Specific Target Organ Toxicity.

16.2 Full text of the H phrases mentioned in point 3:

H226 – Flammable liquid and vapor.  
H302 – Harmful if swallowed.  
H412 – Harmful to aquatic life with long lasting effects.

**DECLARATION OF ALLERGENS**

7th Amendment to Directive 76/768/EC, annex III, part I (2003/15/EC)

I.N.C.I.	C.A.S.	%
Alpha-Hexyl cinnamic aldehyde (HCA)	101-86-0	-
Amyl cinnamic alcohol	101-85-9	-
Amyl cinnamic aldehyde (ACA)	122-40-7	-
Anisyl alcohol	105-13-5	-
Benzyl salicylate	118-58-1	-
Benzyl benzoate	120-51-4	-
Benzyl cinnamate	103-41-3	-
Benzyl alcohol	100-51-6	-
Cinnamic alcohol	104-54-1	-
Cinnamic aldehyde	104-55-2	-
Citral	5392-40-5	-
Citronellol	106-22-9	-
Coumarin (2p-1-benzopyran-2-one)	91-64-5	-
d-Limonene	5989-27-5	≤ 0.0100
Eugenol	97-53-0	-
Farnesol	4602-84-0	-



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Geraniol	106-24-1	-
Lyral (Hydroxymethylpentyl cyclohexene carbaldoxaldehyde)	31906-04-4	-
Hydroxycitronellal	107-75-5	-
Isoeugenol	97-54-1	-
alpha-Iso-methyl ionone	127-51-5	-
Linalool	78-70-6	-
Methyl heptine carbonate	12/06/11	-
Oakmoss absolute	9000-50-4	-
p-tert-Butyl-alpha- methylhydrocinnamic aldehyde	80-54-6	-
Tree moss	68648-41-9	-

**Disclaimer:**

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.