

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

MYRRH ESSENTIAL OIL

1. Identification of the substance/mixture and company

Trade name:	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
EINECS No. :	284-510-0
REACH registration No. :	01-2120763990-45
Utilization:	Raw material for personal care, aromatherapy
Supplier company identification:	Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania Tel/Fax: +40259-436.755, www.elemental.com
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**3.1. Substances**

The product contains the following components to declare:

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

3.2. Mixtures

Not Applicable

4. First aid measures**4.1 Description of first aid measures**

General Information: In case of accident or unwellness, seek medical advice immediately, show directions for use or safety data sheet if possible.

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

4.2 Main symptoms and effects, both acute and delayed

Generally, if in doubt or if symptoms persist, consult a doctor. Never give anything by mouth to an unconscious person. It is recommended that those who provide first aid have a personal protective equipment. No action shall be taken involving any personal risk or without suitable training.

4.3 Indication to consult a physician immediately or any special treatments

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In case of illness contact your physician immediately. Treat symptomatically. Contact a specialist for treatment of poisoning if large amounts are ingested or inhaled.

5. Fire fighting measures

5.1 Means of extinction

Suitable extinguishing media: Foam, Co2, Dry Chemical Powder.

Unsuitable extinguishing media: High power water jet.

5.2 Special hazards arising from the substance or mixture

During the fire toxic fumes could be released, use protective masks. Overpressure can be created in containers exposed to fire with danger of explosion, cool the containers before handling them

5.3 Recommendations for fire-fighters

Always wear full fire protection equipment: protective helmet with visor, fireproof clothing, intervention gloves, breathing apparatus.

6. Accidental release measures

6.1 Personal precautions, protective devices and emergency procedures

In case of loss or spillage of the product, remove any flames or other sources of heat from the area where the leak occurred. Use protection if necessary for airways; protective clothing must be worn (eg. safety glasses or masks). Do not handle damaged containers or spilled product without wearing the appropriate protective equipment.

6.2 Environmental precautions

Discharge into the environment must be avoided. Prevent the product from entering drains, superficial drains, groundwater and confined areas. In case of such contamination inform the competent authorities.

6.3 Methods and materials for containment and remediation

Absorb spilled product with inert absorbent material: sand, vermiculite, diatomaceous earth. Collect most of the resulting material and deposit it in containers for disposal. Ensure adequate ventilation of the site.

6.4 Reference to other sections

Refer to section 7, 8 and 13

7. Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good hygiene and safety practice. Keep containers sealed when not in use. Prevent spills & leaks to avoid slip hazard. Always wear personal protective clothing (refer to section 8). Do not eat, drink, or smoke whilst handling this product. Provide suitable mechanical equipment for the safe handling of drums & heavy packages.

7.2 Conditions for safe storage, including any incompatibilities

Keep the product container tightly closed, in a dry, ventilated area. Keep away from potential sources of ignition and protected from heat and light. Maintain limited contact with oxygen. Do not smoke. Store in original container or other container approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain residue product.

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7.3 Specific end uses

No other than mentioned in section 1. Comply with regulations and specifications of the product.

8. Exposure controls / personal protection

8.1 Control parameters

Handle in accordance with good industrial hygiene and safety practice.

8.2 Exposure controls

Hand protection: Protect hands with category I work gloves (ref. Directive 89/686 / EEC and standard EN 374) such as latex, PVC or equivalent.

Skin protection: Wear work clothes with long sleeves and safety footwear for professional use of category I (ref. Directive 89/686 / EEC and standard EN 344). Wash with soap and water after removing protective clothing.

Respiratory protection: Use protective masks. The use of respiratory protection is necessary in the absence of technical measures to limit worker exposure.

Eye protection: it is recommended to wear airtight protective goggles (ref. Standard EN 166).

8.3 Environmental exposure controls

Environmental protection legislation for every country must be observed.

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: Not relevant

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

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9.2 Other information

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

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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

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

Always recover spilled product. Discard waste material with authorized waste management services. Act in accordance with local and national waste regulations.

14. Transport information

ADR / RID		IMDG		IATA	
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14.1 UN number

ADR: 1169

IMDG: 1169

IATA: 1169

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

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IATA: 3

14.4 Packing group

ADR: III

IMDG: III

IATA: III

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

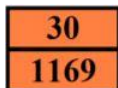
Transport category (ADR): 3

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

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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

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

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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:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula-tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergen-cy Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration as-sociated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good La-boratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships car-rying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - Interna-tional Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO – International Maritime Organization; INCI: International Nomenclature of Cosmetic Ingredients; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test popula-tion; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - Interna-tional Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Ef-fect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic sub-stance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quanti-tative) Structure Activity Relationship; PNEC: Predicted No Effect Concentration; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Re-striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; STE: Short-term exposure; STEL: Short Term Exposure limit; STOT: Specific Target Organ Toxicity; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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)

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I.N.C.I.	C.A.S.	Max %
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	-
Geraniol	106-24-1	-
Lylal (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.