



## Safety Data Sheet

# WORMWOOD OIL

according to 1907/2006/EC, Article 31, amended by Regulation (EU) No. 453/2010

Date / Revised: 29.07.2021

Version: 2.0

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

#### 1.1 Product Identifier

**Product Name:** : Wormwood Oil Natural

**Type of product:** Essential Oil

**INCI:** :Artemisia Annua Oil

**Chemical name:** Artemisia Annua

**Biological Definition:** The volatile oil obtained by steam distillation of the freshly cut flowering tops of the herb Artemisia Annua.

#### Reach Registration Number:

**FEMA No.:** 3116

**CAS No:** 8008-93-3

**CAS EINECS No:** 84929-19-1

**EINECS No.:** 284-503-2

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

##### Identified Uses:

For perfumery and cosmetic use

#### 1.3 Details of the supplier of the safety data sheet

Company : Lecheq Farm and Distillery LLC 6200,

Village A.Tala, Zagatala,  
Azerbaijan

E-mail address: [rasul.yaliyev@lecheq.az](mailto:rasul.yaliyev@lecheq.az)

Responsible/issuing person : Rasul Yaliyev

Phone : +994 12 310 08 03

#### 1.4 Emergency telephone number

France +33 1 72 11 00 03

All Europe +44 1235 239670

Please refer to section 16 for a full list of emergency phone numbers

### 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification (EC 1272/2008)

Skin irritation, Category 2  
 Skin sensitisation, Category 1  
 Eye Irritation Category 2  
 Acute aquatic toxicity, Category 1  
 H315: Causes skin irritation.  
 H317: May cause an allergic skin reaction  
 H410: Aquatic Chronic 1  
 H304 May be fatal if swallowed and enters airways.

## 2.2 Label element

Labelling (REGULATION (EC) No 1272/2008)

## 2.3 Hazard pictograms:



## 2.4 Other hazards Signal Word: Danger.

**Contains:** -EUH208 3,7-dimethylocta-1,6dien-3-ol (linalool), (4R)-1-methyl-4-prop-1-en-2-ylcyclohexene (dextro-limonene)

### Hazard Statements:

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H304 May be fatal if swallowed and enters airways.

### Precautionary Statements:

P210 Keep away from heat, sparks, open flames or hot surfaces. – No smoking.  
 Disposal:P261 Avoid breathing dust, fume, gas, mist, vapours, spray.  
 P264 Wash parts in contact thoroughly after handling.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves, protective clothing, eye protection, face protection.  
 P301/310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
 P331 Do NOT induce vomiting.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplementary Precautionary Statements:** None.

**PBT or vPvB according to Annex XIII:** No additional data available.

**Adverse physio-chemical properties:** No additional data available.

**Adverse effects on human health:** No additional data available.

## 3.Composition/Information on ingredients

**3.1 Substances:** No additional data available.

### 3.2 Mixtures

Hazardous components

Chemical Name	% (w/w)	CAS No EC No	Classification according to GHS

THUJONES	≥50	- -	Flammable Liquids - Category 4 - H227 Acute Toxicity - Category 4 (oral) - H302
MYRCENE	≥1; <10	123-35-3 204-622-5	Flammable Liquids - Category 3 - H226 Skin Irritant - Category 2 - H315 Eye Irritant - Category 2A - H319 Aspiration hazard - Category 1 - H304 Hazardous to the aquatic environment, short-term (acute) - Category 1 - H400 Hazardous to the aquatic environment, long-term (chronic) - Category 2 - H411
LINALOOL	≥1; <10	78-70-6 201-134-4	Flammable Liquids - Category 4 - H227 Acute Toxicity - Category 5 (oral) - H303 Skin Irritant - Category 2 - H315 Eye Irritant - Category 2A - H319 Skin sensitizer - Category 1B - H317 Hazardous to the aquatic environment, short-term (acute) - Category 3 - H402
D-LIMONENE	≥1; <10	5989-27-5 227-813-5	Flammable Liquids - Category 3 - H226 Skin Irritant - Category 2 - H315 Skin sensitizer - Category 1B - H317 Aspiration hazard - Category 1 - H304 Hazardous to the aquatic environment, short-term (acute) - Category 1 - H400 Hazardous to the aquatic environment, long-term (chronic) - Category 3 - H412
ALPHA-PINENE	≥0.1; <1	80-56-8 201-291-9	Flammable Liquids - Category 3 - H226 Acute Toxicity - Category 4 (oral) - H302 Skin Irritant - Category 2 - H315 Skin sensitizer - Category 1B - H317 Aspiration hazard - Category 1 - H304 Hazardous to the aquatic environment, short-term (acute) - Category 1 - H400 Hazardous to the aquatic environment, long-term (chronic) - Category 1 - H410
BETA-PINENE	≥0.1; <1	127-91-3 204-872-5	Flammable Liquids - Category 3 - H226 Skin Irritant - Category 2 - H315 Skin sensitizer - Category 1B - H317 Aspiration hazard - Category 1 - H304 Hazardous to the aquatic environment, short-term (acute) - Category 1 - H400 Hazardous to the aquatic environment, long-term (chronic) - Category 1 - H410

## 4. First Aid Measures

### 4.1 Description of first aid measures

**Inhalation:** Move to fresh air. Obtain medical advice, if necessary.

**Ingestion:** Rinse mouth with water. Obtain medical advice, if necessary. Do not induce vomiting without any medical surveillance.

**Skin Contact:** Wash off thoroughly with water and soap. Remove contaminated clothes. If itching or irritation occurs, obtain medical advice.  
**Eye Contact:** Rinse immediately with plenty of water for at least 10 minutes. Obtain medical advice in case of irritation.

**4.2 Most important symptoms and effects, both acute and delayed Symptoms and effects:** None.

**4.3 Indication of any immediate medical attention and special treatment needed Special requirements:** Not required.

## 5. Fire Fighting Measures

### 5.1 Extinguishing

**media Suitable**

**extinguishing Media:**

D Powder. Specific dangers related to exposure to the substance/preparation and products resulting thereof of burning and discharging gases.

Use personal protective equipment and suitable clothing. Protect skin and eyes.

**Unsuitable extinguishing Media-DO NOT USE:**

Do not use water for direct extinguishing. Dangerous!

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

Possible discharge of toxic gases upon burning. Use protective equipment – gas mask.

### 5.3 Advice for firefighters

**Special firefighting procedures/ protective actions:** Use protective equipment – gas mask.

## 6. Accidental Release Measures

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

#### Personal precautions:

Ensure immediate ventilation premises. Use personal protective equipment.  
Remove ignition sources.

#### Environmental precautions:

Cover flood with inert, non-combustible materials. Collect in a suitable disposal container.  
Do not allow sewerage leaking.

### 6.2 Methods and material for containment and cleaning up Spill Clean Up Methods:

Non- organic, non-combustible sorbents (such as sand, talk powder, etc.).

### 6.3 Reference to other sections Reference to other sections:

Section 7- for information on safe handling.

Section 8 – Exposure controls/ personal protection for further information on personal

Section 13 – Disposal considerations for further information on waste treatment.

## 7. Handling and Storage

### 7.1 Precautions for safe handling Usage precautions:

Observe good hygiene in the place of storage.  
Do not allow spilling of combustible materials in the storage premises.

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

**Storage Precautions:** Store in dry, intact, tightly sealed containers, at cool temperatures (5 – 15 °C) and away of sunlight.

**Suitable Packaging:** No additional data available.

### 7.3 Specific end use(s)

**End Uses:** No additional data available

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

3,7-Dimethyl octa-1,6-diene-3-yl acetate - Index: NA, CAS: 115-95-7, EC No: 204-116-4 TLV TWA - TLV STEL- VLE 8h- VLE short: None.

3,7-Dimethyl octa-1,6-diene-3-ol - Index: NA, CAS: 78-70-6, EC No: 201-134-4 TLV TWA - TLV STEL- VLE 8h- VLE short: None.

TERPINEN-4-OL - Index: NA, CAS: 562-74-3, EC No: 209-235-5 TLV TWA - TLV STEL- VLE 8h- VLE short: None.

(R)-p-Mentha-1,8-diene - Index: NA, CAS: 5989-27-5, EC No: 227-813-5 TLV TWA - TLV STEL- VLE 8h- VLE short: None.

## 8.2 Exposure controls Protective Equipment:



### Process conditions:

Provide eyewash station.

Wash hands before breaks and at the end of work.

**Engineering Measures:** Provide adequate ventilation.

**Respiratory Equipment:** Not required.

**Hand Protection:** Use protective gloves that provide comprehensive protection, e.g. P.V.C., neoprene or rubber.

**Eye Protection** Not needed for normal use, but operate according good working practices.

**Other Protection** No additional data available.

### Hygiene Measures

Good personal hygiene practices are always advisable, especially when working with chemicals/oils.

Keep away from foodstuffs, beverages and feed.

**Personal protection** No additional data available.

**Skin protection** Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

### Environmental exposure controls:

Avoid discharging into drainage water.

Only eliminate by authorised companies.

## 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

**Appearance:** Mobile liquid.

**Colour:** Colourless to pale yellow.

**Odour:** Characteristic, fresh, floral.

**Ph:** 3,5

**Relative Density:** 0.875 to 0.890 @ 20°C

**Flash Point (°C):** 71°C

**Refractive Index:** 1.457 to 1.467@ 20°C

**Melting Point (°C):** No additional data available.

**Boiling Point (°C):** 270 °C

**Vapour Pressure:** No additional data available.

**Solubility in Water @20°C:** Insoluble in water.

**Auto-ignition temperature (°C):** No additional data available.

## 10. Stability and Reactivity

### 10.1 Reactivity

**Reactivity:** Stable under normal conditions.

### 10.2 Chemical stability

**Stability:** Stable under normal conditions.

### Possibility of hazardous reactions

**Possible hazardous reactions:** No additional data available.

### 10.3 Conditions to avoid

**Conditions to Avoid:** Stable under normal conditions.

### 10.4 Incompatible materials

**Incompatible materials:** No additional data available.

### 10.5 Hazardous decomposition products

**Hazardous Decomposition Products:** No dangerous decomposition products known.

## 11. Toxicological Information

### 11.1 Information on toxicological effects Acute Toxicity:

Artemisia Annu oil - Index: N.A., CAS: 90063-37-9, EC No:

289-995-2 Oral LD50 - 2000 mg/kg

-rats Dermal LC50 - 2000

mg/kg – rabbits.

3,7-Dimethyl octa-1,6-diene-3-yl acetate - Index: N.A., CAS: 115-95-7, EC No:

204-116-4 Oral rat LD50: 14600 mg/kg

3,7-Dimethyl octa-1,6-diene-3-ol - Index: N.A., CAS: 78-70-6, EC No: 201-

134-4 Oral LD50 (rat): 2790 mg/kg

Dermal LD (rabbit): > 5000 mg/kg

TERPINEN-4-OL - Index: N.A., CAS: 562-74-3, EC No: 209-235-5

LD50 oral: 1.3

g/kg (rat) LD50

oral: 5 g/kg

(rabbit)

(R)-p-Mentha-1,8-diene - Index: N.A., CAS: 5989-27-5, EC No: 227-813-5

Oral (rat) : LD50 4400

mg/kg Oral (mice): LD50

> 5500 mg/kg

Dermal (rabbit): LD50 >2000 mg/kg

**Skin corrosion / irritation:** No additional data available.

**Serious eye damage / irritation:** No additional data available.

**Respiratory or Skin sensitisation:** No additional data available.

**Ingestion:** No additional data available.

**Germ Cell Mutagenicity:** No additional data available.

**Carcinogenicity:** No additional data available.

**Reproductive toxicity:** No additional data available.

**STOT-single exposure:** No additional data available.

**STOT-repeated exposure:** No additional data available.

**Aspiration hazard:** No additional data available.

**Photo-toxicity:** No additional data available.

**Other Information:** No additional data available.

## 12. Ecological Information

**12.1 Toxicity Ecotoxicity:** Adopt good working practices, so that the product is not released into the environment. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### **12.2 Persistence and degradability**

**Persistence & degradability:** No additional data available.

#### **12.3 Bioaccumulative potential**

**Bioaccumulative Potential:** No additional data available.

#### **12.4 Mobility in soil**

**Mobility:** No additional data available.

#### **12.5 Results of PBT and vPvB assessment PBT Assessment Results: N.A.**

##### **List of substances dangerous for the environment and corresponding classification:**

< 1% (R)-p-Mentha-1,8-diene CAS: 5989-27-5 EC: 227-813-5 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Fish (P.Promelas) : LC50 33mg/l - 96h Daphia magna: EC50 69.6 mg/l - 48h vPvB

Substances: - PBT Substances: None.

#### **12.6 Other adverse effects Precautions: None.**

### **13. Disposal Considerations**

#### **13.1 Waste treatment methods**

**Disposal Methods:** Dispose of waste product or used containers in accordance with local regulations.

### **14. Transport Information**

**Warning Icon:** Not regulated.

#### **UN number**

**UN No Road – ADR/RID/ADN:** Not regulated.

**UN No Sea- IMDG:** Not regulated.

**UN No Air – IATA:** Not regulated.

#### **UN proper shipping**

**name Road –**

**ADR/RID/ADN:** None.

**Sea- IMDG:** None.

**Air -IATA:** None.

#### **Transport hazard class(es)**

**Road – ADR/RID/ADN:** Not Classed as a hazardous material for transport.

**Sea- IMDG:** Not Classed as a hazardous material for transport.

**Air- IATA:** Not Classed as a hazardous material for transport.

#### **Packing group**

**Road – ADR/RID/ADN:** None.

**Sea- IMDG:** None.

**Air – IATA:** None.

#### **Environmental hazards**



**Environmentally hazardous substance/ marine pollutant:** None.

**Special precautions for user Precautions:** None.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**  
No additional data available.

## 15. Regulatory Information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Directives:** Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18th Dec 2006 Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments.

**15.2 Statutory Instruments: The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716).**

**Approved Code of Practice:** Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations

**Guidance Notes:** Workplace Exposure Limits EH40. CHIP for everyone HSG 108.

**15.3 Chemical safety assessment**

**Assessment information:** A chemical assessment for this product has not been carried out.

## 16. Other Information

**Risk Phrases in Full:** None.

**Hazard Statements in Full:**

Full text of H-Statements referred to under sections 2 and 3.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Full list of Emergency response numbers worldwide.

Country Phone nr Europe/ APAC

All Europe +44 1235 239670 All East/South East Asia +65 3158 1074  
France +33 1 72 11 00 03 Sri Lanka +65 3158 1195  
Germany +49 69 222 25285 Taiwan +886 2 8793 3212  
Spain +34 91 114 2520 Japan +81 3 4578 9341  
Italy +39 02 3604 2884 Indonesia 007 803 011 0293  
Netherlands +31 10 713 8195 Malaysia +60 3 6207 4347  
Turkey +90 212 375 5231 Thailand 001 800 120 666 751  
Norway +47 2103 4452 India +65 3158 1198 000 800 100 7479  
Greece +30 21 1198 3182 Pakistan +65 3158 1329  
Portugal +351 30880 4750 Bangladesh +65 3158 1200  
Denmark +45 8988 2286 Philippines +65 3158 1203  
Sweden +46 8 566 42573 Vietnam +84 8 4458 2388  
Poland +48 22 307 3690 Korea +65 3158 1285  
Czech rep +420 228 882 830 South Korea +82 2 3479 8401  
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China +86 21 6267 9090  
Africa/South Africa +27 21 300 2732  
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