

Revision Date: 17.10.2023

**1. Identification****Product Identifier(s)****Trade Name:** Rosemary Essential Oil**Biological Definition:** *Rosmarinus officinalis* leaf oil is the essential oil obtained from the flowering tops and leaves of the Rosemary, *Rosmarinus officinalis* L.**CAS #:** 8000-25-7 / 84604-14-8**EC #:** 283-291-9**EINECS #:** 283-291-9**Recommended use of the chemical and restrictions on use****Recommended Use** Suitable for fragrance, flavour, cosmetic, and professional use only.**Restrictions on Use** Unsuitable for internal use in this concentration.**Details of the supplier of the SDS**AltraFlora Natural Botanicals Inc. (Tax Number: 0650832816)  
Zafer Mah., 1033 sokak, No: 16/A, Merkezefendi / Denizli, TURKEY**Emergency Telephone Number:** +90 538 051 7405**2. Hazard(s) Identification****Classification of the substance or mixture**

<b>Hazard Type</b>	<b>Hazard Name</b>	<b>Category</b>	<b>Code*</b>
Physical	Flammable Liquid	3	H226
	Aspiration Toxicity	1	H304
Health	Skin Irritation	2	H315
	Skin Sensitization	1B	H317
	Eye Irritation	2	H319
	STOT SE	2	H371
Environmental	Aquatic Chronic	2	H411

**\*The full text of all hazard statements is displayed in Section 16****Hazards not otherwise classified (HNOC)**

Not applicable

**Signal Word:** Danger

**Appearance:** Liquid

**Physical state:** Liquid

**Odor:** Characteristic

**Label Elements (in accordance with EC No 1272/2008)**

GHS02



GHS08



GHS07



GHS09



**Hazard Statements**

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H371 May cause damage to organs.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

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

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P310 Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P370 + P378 In case of fire: Use Foam, carbon dioxide or dry powder to extinguish.

P391 Collect spillage.

P501 Dispose of contents in accordance with local, state, or national legislation.

### Supplementary Precautionary Statements

P264 Wash hands and exposed skin thoroughly after handling.

## 3. Composition/information on ingredients

### Substance

Chemical Name	CAS No	Composition (%)	Trade secret
Rosemary Essential Oil	8000-25-7	100	None*

\*The exact percentage composition of the substance may be withheld as a trade secret

### Ingredients

Chemical Name	CAS	EINECS	Composition	Classification (EC 1272/2008)
Eucalyptol	470-82-6	207-431-5	25–50%	Flam. Liq. 3 (H226) Skin Sens. 1B (H317)
alpha-Pinene	80-56-8	201-291-9	25–50%	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Camphor	76-22-2	200-945-0	5–15%	Flam. Sol. 2 (H228) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Acute Tox. 4 (H332) STOT SE 2 (H371)
d-Limonene	5989-27-5	227-813-5	<7.5%	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
beta-Pinene	127-91-3	204-872-5	5–10%	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Camphene	79-92-5	201-234-8	1–5%	Flam. Sol. 1 (H228)

				Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
para-Cymene	99-87-6	202-796-7	1–5%	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Repr. 2 (H361) Aquatic Chronic 2 (H411)
beta-Caryophyllene	87-44-5	201-746-1	1–5%	Asp. Tox. 1 (H304) Skin Sens. 1B (H317)
alpha-Terpinene	99-86-5	202-795-1	1–5%	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Skin Sens. 1B (H317) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)
gamma-Terpinene	99-85-4	202-794-6	1–5%	Flam. Liq. 3 (H226) Repr. 2 (H361) Aquatic Chronic 2 (H411)
alpha-Terpineol	98-55-5	202-680-6	1–5%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)
Myrcene	123-35-3	204-622-5	1–5%	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)
alpha-Thujene	2867-05-2	202-686-7	<1.0%	Flam. Liq. 3 (H226) Skin Sens. 1 (H317) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Eye Irrit. 2 (H319)
Linalool	78-70-6	201-134-4	<0.4%	Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Eye Irrit. 2 (H319)
Terpinolene	586-62-9	209-578-0	<1.0%	Asp. Tox. 1 (H304) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
3,7-Dimethyl-1,3,6-octatriene	13877-91-3	237-641-2	<1.0%	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)

#### 4. First-Aid Measures

##### Description of first aid measures

<b>General Advice</b>	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical advice/attention. Delayed pulmonary edema may occur. Remove to fresh air.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Get immediate medical advice/attention. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.
<b>Self-Protection of the first aider</b>	Remove all sources of ignition. See section 8 for more information. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Avoid contact with skin, eyes, or clothing.

### **Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	Itching. Rashes. Hives. Difficulty breathing. Coughing and/or wheezing. Dizziness. May cause redness and tearing of the eyes. Burning sensation.
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### **Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians</b>	May cause sensitization in susceptible persons. Treat symptomatically. Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.
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## **5. Fire-Fighting Measures**

<b>Suitable extinguishing media – Large Fire</b>	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam. CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
<b>Specific hazards arising from the chemical</b>	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitizer. May cause sensitization by skin contact. A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke. Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO <sub>2</sub> ), Carbon monoxide (CO), other toxic gases.

### Explosion Data

<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	Yes.
<b>Specific protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	See section 8 for more information. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
<b>Other information</b>	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

### Methods and material for containment and cleaning up

**Methods for containment**

Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapours. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches, and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up**

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

### 7. Handling and storage

**Precautions for safe handling****Advice on safe handling**

Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, or clothing. Do not eat, drink, or smoke when using this product.

**Conditions for safe storage, including and incompatibilities****Storage Conditions**

Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials. Keep containers tightly closed in a dry, cool, and well-ventilated place protected from light and potential sources of ignition.

### 8. Exposure Controls & Personal Protection

**Control Parameters**

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the

mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or another recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

**Camphor (CAS: 76-22-2)**

As solid:

Long-term exposure limit (8-hour TWA): WEL 2 ppm 13 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 3 ppm 19 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

**Appropriate engineering controls**

<b>Engineering Controls</b>	Showers Eyewash Stations Ventillation Systems or Respiratory Protection
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**Individual Protection Measures, such as Personal Protective Equipment**



**Eye/Face Protection**



**Hand Protection**



**Skin and Body Protection**

**Respiratory Protection**

**General hygiene considerations**

Tight sealing safety goggles in accordance with EN166.

Impervious gloves. Wear suitable gloves in accordance with EN374.

Chemical resistant apron. Antistatic boots. Long sleeved clothing. Wear suitable chemical-resistant protective clothing.

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

**9. Physical and Chemical Properties**



<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Colourless to pale yellow.
<b>Odour</b>	Characteristic.
<b>Relative Density</b>	Approx. 0.900 at 20°C
<b>Flash Point (°C)</b>	46
<b>Refractive Index</b>	Approx. 1.466 at 20°C
<b>Melting Point (°C)</b>	No additional data available.
<b>Boiling Point (°C)</b>	No additional data available.
<b>Vapour Pressure</b>	No additional data available.
<b>Solubility in Water at 20°C</b>	Insoluble.
<b>Auto-Ignition Temperature (°C)</b>	No additional data available.

## 10. Stability and reactivity

<b>Reactivity</b>	Presents no significant reactivity hazards, by itself or in contact with water.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to avoid</b>	Heat, flames, sparks and other ignition sources. Prevent storing the product in open containers for long periods to prevent product deterioration.
<b>Incompatible materials</b>	Strong acids. Strong bases. Strong oxidizing agents.
<b>Hazardous decomposition products</b>	None known based on information supplied. Thermal decomposition may release/form oxides of carbon (carbon monoxide, carbon dioxide) and other toxic gases.

## 11. Toxicological Information

### Information on likely routes of exposure

<b>Inhalation</b>	Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
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<b>Eye contact</b>	Irritating to eyes. Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components).
<b>Skin contact</b>	May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Repeated exposure may cause skin dryness or cracking. Causes skin irritation. (based on components). Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Symptoms related to the physical, chemical, and toxicological characteristics

<b>Symptoms</b>	Itching. Rashes. Hives. Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness and tearing of the eyes.
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### Information on toxicological effects

<b>Acute Toxicity</b>	According to REACH data the oral LD50 value is 5000 mg/kg and therefore Rosemary Oil is not classified "Harmful if Swallowed".
<b>Skin corrosion / Irritation</b>	Causes skin irritation.
<b>Serious eye damage / Irritation</b>	The CLP additivity calculation classifies Rosemary Oil as Eye Dam. 1 (H318 – Causes Serious Eye Damage). However, according to REACH data Rosemary Oil is classified as an eye irritant (H319 – Causes serious eye irritation).
<b>Respiratory or skin sensitization</b>	May cause an allergic skin reaction.
<b>Germ Cell Mutagenicity</b>	Not classified.
<b>Carcinogenicity</b>	Not classified.
<b>Reproductive Toxicity</b>	The CLP additivity calculation classifies Rosemary Oil as Repr. 2 (H361 – Suspected of damaging fertility or the unborn child). Although the product contains substances classified as H361, the REACH registration data does not classify Rosemary Oil as toxic for reproduction.
<b>STOT – Single Exposure</b>	May cause damage to organs. Due to the presence of camphor in the product, Rosemary Oil is classified as STOT SE 2.
<b>STOT – Repeated Exposure</b>	Not classified.
<b>Aspiration Hazard</b>	May be fatal if swallowed and enters airways.
<b>Phototoxicity</b>	Not classified.
<b>Other Information</b>	Not classified.

**12. Ecological Information**

<b>Ecotoxicity</b>	The CLP additivity calculation classifies Rosemary Oil as Aquatic Acute 1 (H400 – Very toxic to aquatic life) and Aquatic Chronic 1 (H410 – Very toxic to aquatic life with long-lasting effects). However, based on REACH data Rosemary Oil is classified as Aquatic Chronic 2 (H411 – Toxic to aquatic life with long-lasting effects).
<b>Persistence and degradability</b>	No additional data available.
<b>Bioaccumulation</b>	No additional data available.
<b>Mobility in soil</b>	No additional data available.
<b>Results of PBT and vPvB assessment</b>	No additional data available.
<b>Other adverse effects</b>	Do not discharge into the environment, especially not into waterways, sewers, and the sea.

**13. Disposal Considerations****Waste treatment methods**

<b>Waste from residues/unused products</b>	Should not be released into the environment – do not allow entry into drains or waterways. Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation, preferably via a certified collector.
<b>Contaminated packaging</b>	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Keep labels intact. Dispose via a certified disposal contractor.

**14. Transport Information****UN Number**

UN Number (Road): 1169

UN Number (Sea): 1169

UN Number (Air): 1169

**UN Proper Shipping Name**

Extracts, aromatic, liquid

### **Transport Hazard Class(es)**

#### **ADR/RID**

ADR/RID – Class 3

ADR Classification Code – F1

Special Provisions – 601

Limited Quantities – 5L

Expected Quantities – E1

Emergency Action Code – 3Y

Tunnel Restriction Code – D/E

#### **IMDG**

IMDG – Class 3

Special Provision – 601

Limited Quantities – 5L

Expected Quantities – E1

IMDG EMS – F-E, S-D

Stowage and Handling – Category A

#### **ICAO/IATA**

ICAO/IATA – Class 3

IATA Proper Shipping Name – EXTRACT, AROMATIC, LIQUID

Expected Quantities – E1

### **Transport Labels**



### **Transport Labels**

ADR/RID/AND Packing Group – III

IMDG Packing Group – III

ICAO Packing Group – III

### **Environmental Hazards**

Environmentally Hazardous Substance / Marine Pollutant



### 15. Regulatory Information

#### Safety, health and environmental regulations specific for the substance or mixture

##### Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

##### Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG (108).

##### EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing 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, 93/105/EC and 2000/21/EC, including amendments.

### 16. Other Information

#### Hazards and/or Precautionary Statements in Full

H226 Flammable liquid and vapour.

H228 Flammable solid.

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.

H332 Harmful if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H371 May cause damage to organs.

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.

**Revision Date:** 17.10.2023

**Revision Note:** No information available.

### **Disclaimer**

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.

**End of Safety Data Sheet**