

Revision Date: 17.10.2023

1. Identification**Product Identifier(s)****Trade Name:** Eucalyptus (Australian) Essential Oil**Biological Definition:** *Eucalyptus globulus* leaf oil is the essential oil obtained from fresh leaves of Australian Eucalyptus, *Eucalyptus globulus*.**CAS #:** 8000-48-4 / 84625-32-1**EC #:** 283-406-2**EINECS #:** 283-406-2**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**

Hazard Type	Hazard Name	Category	Code*
Physical	Flammable Liquid	3	H226
	Aspiration Toxicity	1	H304
Health	Skin Irritation	2	H315
	Skin Sensitization	1B	H317
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

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H411 Toxic 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
Eucalyptus (Australian) Oil	8000-48-4	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	<80%	Flam. Liq. 3 (H226) Skin Sens. 1B (H317)
alpha-Pinene	80-56-8	201-291-9	<9.0%	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)
d-Limonene	5989-27-5	227-813-5	<10.0%	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	<1.5%	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
para-Cymene	99-87-6	202-796-7	<7.0%	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Repr. 2 (H361) Aquatic Chronic 2 (H411)
gamma-Terpinene	99-85-4	202-794-6	<6.0%	Flam. Liq. 3 (H226) Repr. 2 (H361) Aquatic Chronic 2 (H411)
alpha-Terpineol	98-55-5	202-680-6	<2.0%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)
Myrcene	123-35-3	204-622-5	<2.0%	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304)

Skin Irrit. 2 (H315)
Eye Irrit. 2 (H319)
Aquatic Acute 1 (H400)
Aquatic Chronic 2 (H411)

4. First-Aid Measures

Description of first aid measures

General Advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Inhalation	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.
Eye Contact	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.
Skin Contact	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.
Ingestion	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.
Self-Protection of the first aider	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

Symptoms	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

Note to physicians

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.

5. Fire-Fighting Measures

Suitable extinguishing media – Large Fire

Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol resistant foam. CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media

Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

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 (CO₂), Carbon monoxide (CO), other toxic gases.

Explosion Data

Sensitivity to mechanical impact

None.

Sensitivity to static discharge

Yes.

Specific protective equipment for fire-fighters

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

Personal precautions

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.

Other information

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.

Appropriate engineering controls

Engineering Controls Showers
Eyewash Stations
Ventillation Systems or Respiratory Protection

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

Appearance	Clear liquid.
Colour	Colourless to pale yellow.
Odour	Fresh, aromatic, cineolic.
Relative Density	Approx. 0.915 at 20°C
Flash Point (°C)	45.5–46.5 PMCC (Pensky-Martens closed cup).
Refractive Index	Approx. 1.452 at 20°C
Melting Point (°C)	+5 to -20
Boiling Point (°C)	153–184
Vapour Pressure	ca. 262 Pa at 25°C
Solubility in Water at 20°C	No additional data available.
Auto-Ignition Temperature (°C)	270

10. Stability and reactivity

Reactivity	Presents no significant reactivity hazards, by itself or in contact with water.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Heat, flames, sparks and other ignition sources. Prevent storing the product in open containers for long periods to prevent product deterioration.
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.
Hazardous decomposition products	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**

Inhalation	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.
Eye contact	Irritating to eyes. Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components).
Skin contact	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.
Ingestion	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

Symptoms	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

Acute Toxicity	Not classified. According to REACH dossier information, the oral LD50 is >2000 mg/kg. The dermal LD50 is >5000 mg/kg.
Skin corrosion / Irritation	Causes skin irritation.
Serious eye damage / Irritation	Not classified.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ Cell Mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive Toxicity	Product is not classed as toxic for reproduction based on REACH dossier data.
STOT – Single Exposure	Not classified.
STOT – Repeated Exposure	Not classified.
Aspiration Hazard	May be fatal if swallowed and enters airways.
Phototoxicity	Not classified.
Other Information	Not classified.

12. Ecological Information

Ecotoxicity	Toxic to aquatic life with long-lasting effects.
Persistence and degradability	Readily biodegradable.
Bioaccumulation	Eucalyptus oil is a natural complex substance. It is a mixture of several components, but three of them represent >90% of the total. Log K _{ow} of each of these components ranges from 2.84–4.42.
Mobility in soil	No additional data available.
Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
Other adverse effects	Do not discharge into the environment, especially not into waterways, sewers, and the sea.

13. Disposal Considerations

Waste treatment methods

Waste from residues/unused products

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.

Contaminated packaging

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.

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.

H361 Suspected of damaging fertility or the unborn child.

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.



SAFETY DATA SHEET (SDS)

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