

LEMON OIL BIO

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1. Identification of the substance/mixture

Trade name: Substance name: CAS Number: **CF Number:**

LEMON OIL BIO LEMON OIL 84929-31-7, 8008-56-8 284-515-8

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

Raw material for the manufacture of fragrances and/or flavourings.

SPAIN

1.3. Details of the supplier of the safety data sheet

Company:	Ernesto Ventós SA				
Address:	Carretera Real, 120 B				
	08960 Sant Just Desvern – Barcelona –				
Telephone:	(00 34) 934 706 210				
Fax:	(00 34) 934 733 010				
E-mail:	info@ventos.com				

1.4. Emergency telephone number

NCEC (+44) 1865 407333 (24h) NCEC (+34) 91 114 2520 (24h) (ES) NCEC (+1) 202 464 2554 (24h) (USA, Canada)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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 2 - H411

2.2. Label Elements



Signal Word: Danger

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.
- H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310+P331 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

P302+P352+P333+P313 – IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Chemical name: CAS number: EC number:

LEMON OIL 84929-31-7, 8008-56-8 284-515-8



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Hazardous constituents:

Chemical Name	% (w/w)	CAS No. EC No.	Classification according to GHS				
LIMONENE	≥50	138-86-3 205-341-0	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				
BETA-PINENE	≥10; <25	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				
GAMMA-TERPINENE	≥1; <10	99-85-4 202-794-6	Flammable Liquids - Category 3 - H226 Acute Toxicity - Category 5 (oral) - H303 Toxic to reproduction - Category 2 - H361 Aspiration hazard - Category 1 - H304 Hazardous to the aquatic environment, short-term (acute) - Category 2 - H401 Hazardous to the aquatic environment, long-term (chronic) - Category 2 - H411				
CITRAL	≥1; <10	5392-40-5 226-394-6	Skin Irritant - Category 2 - H315 Eye Irritant - Category 2A - H319 Skin sensitizer - Category 1 - H317 Hazardous to the aquatic environment, short-term (acute) - Category 2 - H401				
ALPHA-PINENE	≥1; <10	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				
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				
L-BETA-BISABOLENE	≥0.1; <1	495-61-4 NOT LISTED	Acute Toxicity - Category 4 (inhalation) - H332 Skin Irritant - Category 2 - H315 Skin sensitizer - Category 1B - H317				
PARA-CYMENE	≥0.1; <1	99-87-6 202-796-7	Flammable Liquids - Category 3 - H226 Acute Toxicity - Category 3 (inhalation) - H331 Acute Toxicity - Category 5 (oral) - H303 Toxic to reproduction - Category 2 - H361 Aspiration hazard - Category 1 - H304 Hazardous to the aquatic environment, short-term (acute) - Category 2 - H401 Hazardous to the aquatic environment, long-term (chronic) - Category 2 - H411				
NERYL ACETATE	≥0.1; <1	141-12-8 205-459-2	Skin sensitizer - Category 1B - H317 Hazardous to the aquatic environment, short-term (acute) - Category 2 - H401				
TERPINOLENE	≥0.1; <1	586-62-9 209-578-0	Flammable Liquids - Category 4 - H227 Acute Toxicity - Category 5 (oral) - H303 Skin Irritant - Category 5 (oral) - H303 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				
GERANYL ACETATE	≥0.1; <1	105-87-3 203-341-5	Skin Irritant - Category 2 - H315 Skin sensitizer - Category 1B - H317 Hazardous to the aquatic environment, short-term (acute) - Category 2 - H401 Hazardous to the aquatic environment, long-term (chronic) - Category 3 - H412				
BETA-CARYOPHYLLENE	≥0.1; <1	87-44-5	Skin sensitizer - Category 1B - H317				

See the full text of the hazard statements in section 16.



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3.2. Mixtures

Not applicable.

4. FIRST-AID MEASURES

4.1. Description of necessary first aid measures

Rinse mouth with water.
Obtain medical advice.
Keep at rest. Do not induce vomiting.
In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes and seek medical advice.
Remove person to fresh air and keep at rest.
Seek immediate medical advice.
Take off immediately all contaminated clothing.
Thoroughly wash affected skin with soap and water.
Seek medical attention if symptoms persist.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Water spray, carbon dioxide, dry chemical powder or appropriate foam. For safety reasons do not use full water jet.

5.2. Special hazards arising from the substance or mixture

Known or Anticipated Hazardous Products of Combustion: Emits toxic fumes under fire conditions.

5.3. Advice for firefighters

High temperatures can lead to high pressures inside closed containers. Avoid inhalation of vapors that are created. Use appropriate respiratory protection. Do not allow spillage of fire to be poured into drains or watercourses. Wear self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate surronding areas. Ensure adequate ventilation. Keep unnecessary and unprotected personnel from entering. Do not breathe vapor/spray. Avoid contact with skin and eyes. Information regarding personal protective measures: see section 8.

6.2. Environmental precautions

To avoid possible contamination of the environment, do not discharge into any drains, surface waters or groundwaters.

6.3. Methods and materials for containment and cleaning up

Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash). Place in covered containers using non-sparking tools and transport outdoors. Avoid open flames or sources of ignition (e.g. pilot lights on gas hot water heater). Ventilate area and wash spill site after material pickup is complete.

6.4. Reference to other sections

Information regarding exposure controls, personal protection and disposal considerations can be found in sections 8 and 13.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Do not store or handle this material near food or drinking water. Do not smoke. Avoid contact with the eyes, skin and clothing. Wear protective clothing and use glasses. Observe the rules of safety and hygiene at work. Keep in the original container or an alternative made from a compatible material.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed and preferably full containers in a cool, dry and ventilated area, protected from light. Keep away from sources of ignition (e.g. hot surfaces, sparks, flame and static discharges). Keep away from incompatible materials (see section 10).



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7.3. Specific end use(s)

No information available.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Control parameters

Components with occupational exposure limits:

Chemical Name	CAS No.	Norm.	8 hr.			15 min.		
			0	ppm	mg/m³	15 1111.	ppm	mg/m³
BETA-PINENE	127-91-3	ES (España)	VLA-ED	20	113	VLA-EC		
ALPHA-PINENE	80-56-8	ES (España)	VLA-ED	20	113	VLA-EC		
CITRAL	5392-40-5	ES (España) 1	VLA-ED	5		VLA-EC		
		PL (Polska)	NDS		27	NDSCh		54

¹ Possibility of significant uptake though the skin.

8.2. Exposure controls

Measures should be taken to prevent materials from being splashed into the body. Provide adequate ventilation, according to the conditions of use. Use a mechanical exhaust if required.

8.3. Individual protection measures, such as personal protective equipment

Eye/Face protection: Hand Protection: Body protection:	Chemical safety goggles are recommended. Wash contaminated goggles before reuse. Chemical-resistant gloves are recommended. Wash contaminated gloves before reuse. Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
Respiratory Protection: Environmental exposure controls:	In case of insufficient ventilation, use suitable respiratory equipment. Emissions from ventilation or process equipment should be checked to ensure they comply with environmental protection legislation.
	In some cases, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid	
Colour:	Conforms to standard	
Odour:	Conforms to standard	
Odour theshold:	Not determined	
pH:	Not determined	
Melting point/freezing point:	Not determined	
Boling point/boiling range (°C):	Not determined	
Flash point:	47 °C	
Evaporation rate:	Not determined	
Flammability:	Not determined	
Lower flammability/Explosive limit:	Not determined	
Upper flammability/Explosive limit:	Not determined	
Vapour pressure:	Not determined	
Vapour Density:	Not determined	
Density:	0,845—0,854 g/mL (20°C)	
Relative density:	0,845—0,854 (20°C)	
Water solubility:	INSOLUBLE IN WATER	
Solubility in other solvents:	SOLUBLE IN ETHANOL	
Partition coefficient n-octanol/water:	Not determined	
Auto-ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
Viscosity, dynamic:	Not determined	
Viscosity, kinematic:	Not determined	
Explosive properties:	Not determined	
Oxidising properties:	NONE EXPECTED	

10. STABILITY AND REACTIVITY

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.



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10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

10.4. Conditions to Avoid

Conditions to Avoid: Excessive heat, flame or other ignition sources.

10.5. Incompatible materials

Avoid contact with strong acids and bases and oxidizing agents.

10.6. Hazardous decomposition products

During combustion may form carbon monoxide and unidentified organic compounds.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Based on the data available, the criteria for classification are not met.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Based on the data available, the criteria for classification are not met.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Based on the data available, the criteria for classification are not met.
Carcinogenicity	Based on the data available, the criteria for classification are not met.
Reproductive toxicity	Based on the data available, the criteria for classification are not met.
STOT-single exposure	Based on the data available, the criteria for classification are not met.
STOT-repeated exposure	Based on the data available, the criteria for classification are not met.
Aspiration hazard	May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Assessment: Very toxic to aquatic life with long lasting effects. Experimental/calculated data: No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available. **12.4. Soil mobility**

No information available.

12.5. Other adverse effects

See also sections 6, 7, 13 and 15 Do not allow to get into waste water or waterways.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of in accordance with national and local environmental regulations.

14. TRANSPORT INFORMATION

				1 m		
	ADR/RID/ADN		IMDG		IATA-ICAO	
14.1. UN Number	UN1197		UN1197		UN1197	
14.2. UN Proper Shipping Name	EXTRACTS, LIQUID		EXTRACTS, LIQUIE) (LIMONENE)	EXTRACTS, LIQ	UID
14.3. Transport Hazard Class(es)	3		3		3	
14.4. Packing Group	Ш		III		ш	
14.5. Environmental hazards	Yes	k.	Yes		Yes	
Additional information						

14.6 Special precautions for user

None known



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14.7. Maritime transport in bulk according to IMO instruments

No information available

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No information available

16. OTHER INFORMATION

Full text of the R-phrases, hazard statements and precautionary statements mentioned in section 3:

- H226 Flammable liquid and vapour.
- H227 Combustible liquid.
- H302 Harmful if swallowed.
- H303 May be harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H316 Causes mild skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H361 Suspected of damaging fertility or the unborn child.
- H400 Very toxic to aquatic life.
- H401 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 included in this safety data sheet is based on the available data at the moment this document is issued. It is meant to be a description of safety requirements for our product and does not stand for a guarantee of its properties. The user is responsible for taking all necessary steps leading to compliance with local rules and legislation.