

Safety Data Sheet

according to the United Nations GHS (Rev. 5, 2013)

Issue date:08/05/2021 Revision date: 08/05/2021 Supersedes: 22/04/2020 Version: 1.1

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Substance

Trade name : LEMON ESSENTIAL OIL 100% pure and natural ITALY

 Type of product
 : UVCB substance

 EC-No.
 : 284-515-8

 CAS-No.
 : 84929-31-7

 UN-No. (ADR)
 : 1169

1.2 Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Aromatic raw material for professional use.

1.4. Supplier's details

Supplier

Albert Vieille SAS 629 Route de Grasse

BP 217

06227 VALLAURIS - FRANCE T 04 93 64 16 72 - F 04 93 64 80 07

info@albertvieille.com

1.5. Emergency phone number

No additional information available

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture Classification according to the United Nations GHS

Flammable liquids, Category 3

Acute toxicity (oral) Not classified

Acute toxicity (dermal) Not classified

Con basis of test data

On basis of test data

Calculation method

Reproductive toxicity, Category 2

H361

Calculation method

Calculation method

Hazardous to the aquatic environment — Acute Hazard, Category 1 H400 Calculation method Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411 Calculation method

Full text of H-statements: see section 16

Aspiration hazard, Category 1

Adverse physicochemical, human health and environmental effects

 Flammable liquid and vapour, Causes skin irritation, May cause an allergic skin reaction, May be fatal if swallowed and enters airways, Very toxic to aquatic life with long lasting effects.

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)





H304





GHS08

Calculation method

GHS09

Signal word (GHS UN) : Danger

Hazard statements (GHS UN) : 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

GHS07

H361 - Suspected of damaging fertility or the unborn child

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

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Precautionary statements (GHS UN)

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P233 - Keep container tightly closed.

P240 - Ground and bond container and receiving equipment.

P241 - Use explosion-proof equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash ... 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/hearing protection/....

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

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

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water .

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P321 - Specific treatment (see ... on this label).

P331 - Do NOT induce vomiting.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use ... to extinguish.

P391 - Collect spillage.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : LEMON ESSENTIAL OIL 100% pure and natural ITALY

CAS-No. : 84929-31-7 EC-No. : 284-515-8

Substance identification codes: See section 1.1

Name	Product identifier	%	Classification according to the United Nations GHS
dipentene; limonene	(CAS-No.) 138-86-3	≤ 68	Flammable liquids, Category 3, H226 Skin corrosion/irritation, Category 2, H315 Skin sensitisation, category 1B, H317 Aspiration hazard, Category 1, H304 Hazardous to the aquatic environment — Acute Hazard, Category 1, H400 Hazardous to the aquatic environment — Chronic Hazard, Category 3, H412
beta-Pinene	(CAS-No.) 127-91-3	≤ 17	Flammable liquids, Category 3, H226 Skin corrosion/irritation, Category 2, H315 Skin sensitisation, category 1B, H317 Aspiration hazard, Category 1, H304 Hazardous to the aquatic environment — Acute Hazard, Category 1, H400 Hazardous to the aquatic environment — Chronic Hazard, Category 1, H410

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gamma-Terpinene	(CAS-No.) 99-85-4	≤ 12	Flammable liquids, Category 3,
даншта-т егрппене	(CAS-NO.) 99-03-4	3 12	H226 Acute toxicity (oral), Category 5, H303 Skin corrosion/irritation, Category 3, H316 Reproductive toxicity, Category 2, H361 Aspiration hazard, Category 1, H304
alpha-Pinene	(CAS-No.) 80-56-8	≤ 3	Flammable liquids, Category 3, H226 Acute toxicity (oral), Category 4, H302 Skin corrosion/irritation, Category 2, H315 Skin sensitisation, category 1B, H317 Aspiration hazard, Category 1, H304 Hazardous to the aquatic environment — Acute Hazard, Category 1, H400 Hazardous to the aquatic environment — Chronic Hazard, Category 1, H410
Myrcene	(CAS-No.) 123-35-3	≤ 2	Flammable liquids, Category 3, H226 Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Aspiration hazard, Category 1, H304 Hazardous to the aquatic environment — Acute Hazard, Category 1, H400 Hazardous to the aquatic environment — Chronic Hazard, Category 2, H411
Geranial	(CAS-No.) 141-27-5	≤2	Acute toxicity (dermal), Category 5, H313 Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, category 1B, H317 Hazardous to the aquatic environment — Acute Hazard, Category 2, H401
Terpinolene	(CAS-No.) 586-62-9	≤ 0.5	Flammable liquids, Category 4, H227 Acute toxicity (oral), Category 5, H303 Skin corrosion/irritation, Category 3, H316 Skin sensitisation, category 1B, H317 Aspiration hazard, Category 1, H304 Hazardous to the aquatic environment — Acute Hazard, Category 1, H400 Hazardous to the aquatic environment — Chronic Hazard, Category 1, H410

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Nerol	(CAS-No.) 106-25-2	≤ 0.1	Acute toxicity (oral), Category 5, H303 Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, category 1B, H317 Hazardous to the aquatic environment — Acute Hazard, Category 2, H401
Geraniol	(CAS-No.) 106-24-1	≤ 0.1	Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 1, H318 Hazardous to the aquatic environment — Acute Hazard, Category 3, H402 Acute toxicity (oral), Category 5, H303 Skin sensitisation, Category 1, H317

Comments : Analysis method : gas chromatography (GC/FID) area % according to normalization method

(ISO 7609 and 11024)

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : Call a doctor immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation

or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Do not induce vomiting. Call a doctor immediately.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after ingestion : Risk of lung oedema.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use water jet.

5.2. Specific hazards arising from the chemical

Fire hazard : Flammable liquid and vapour.

5.3. Special protective actions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin

and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

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6.3. Methods and materials for containment and cleaning up

For containment : Collect spillage

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters.

Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed

out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands

after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Keep contents under nitrogen.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves
Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s)



8.4. Exposure limit values for the other components

No additional information available

Upper explosive limit (UEL)

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties Physical state : Liquid

Colour Yellow. greenish. Odour fresh, zesty. Odour threshold Not available Not applicable Melting point Not available Freezing point Boiling point Not available Flammability (solid, gas) Not applicable **Explosive limits** Not available Lower explosive limit (LEL) Not available

Flash point : 46 °C

Auto-ignition temperature : Not available

Decomposition temperature : Not available

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Not available

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рΗ Not available pH solution Not available < 20 mm²/s Viscosity, kinematic (calculated value) (40 °C) Partition coefficient n-octanol/water (Log Kow) Not available Not available Vapour pressure Vapour pressure at 50 °C Not available Not available Density 0.85 - 0.858Relative density Relative vapour density at 20 °C Not available Solubility Not available Particle size Not applicable Particle size distribution Not applicable Particle shape Not applicable Particle aspect ratio Not applicable Particle specific surface area Not applicable

9.2. Data relevant with regard to physical hazard classes (supplemental)

UN Gap Test No additional information available Koenen Test No additional information available Limiting impact energy No additional information available Limiting load No additional information available Thermal stability No additional information available Oxidising power (OP) No additional information available Corrected burning rate (Ac) No additional information available Desensitizing agent No additional information available Exothermic decomposition energy No additional information available No additional information available Fundamental burning velocity No additional information available Mass burning rate No additional information available Wetted zone pass No additional information available SADT No additional information available Decomposition energy No additional information available **Detonation properties** No additional information available Deflagration properties No additional information available Effect of heating under confinement No additional information available Explosive power No additional information available Spontaneous ignition No additional information available Pyrophoric properties over time No additional information available

Emitted gas ignition : No

Emitted gas

Gas evolution rate No additional information available Corroded metals No additional information available Corrosion rate No additional information available Minimum ignition energy No additional information available Specific conductivity No additional information available Softening point No additional information available Sublimation point No additional information available Saturation concentration No additional information available Miscibility No additional information available VOC content No additional information available Fat solubility : No additional information available

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No additional information available

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: No additional information available Gas group

Refractive index : 1.47 - 1.476

Bulk density : No additional information available : No additional information available Other properties Additional information : No additional information available

SECTION 10: Stability and reactivity

Reactivity

Flammable liquid and vapour.

10.2. **Chemical stability**

Stable under normal conditions.

Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. **Conditions to avoid**

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

Information on toxicological effects

Not classified. Acute toxicity (oral) Acute toxicity (dermal) : Not classified. Acute toxicity (inhalation) Not classified

LEMON ESSENTIAL OIL 100% pure and natural ITALY (84929-31-7)

LD50 oral rat	> 5000 mg/kg		
LD50 dermal rabbit	> 5000 mg/kg		

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Not classified

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Suspected of damaging fertility or the unborn child. Reproductive toxicity

STOT-single exposure : Not classified STOT-repeated exposure Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

LEMON ESSENTIAL OIL 100% pure and natural ITALY (84929-31-7)

Viscosity, kinematic < 20 mm²/s

SECTION 12: Ecological information

Toxicity

: Very toxic to aquatic life with long lasting effects. Ecology - general

Hazardous to the aquatic environment, short-term : Very toxic to aquatic life.

Classification procedure (Hazardous to the aquatic: Calculation method

environment, short-term (acute))

Hazardous to the aquatic environment, long-term : Toxic to aquatic life with long lasting effects.

Classification procedure (Hazardous to the aquatic: Calculation method

environment, long-term (chronic))

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12.2. Persistence and degradability

LEMON ESSENTIAL OIL 100% pure and natural ITALY (84929-31-7)

Persistence and degradability No additional information available

12.3. Bioaccumulative potential

LEMON ESSENTIAL OIL 100% pure and natural ITALY (84929-31-7)

Bioaccumulative potential No additional information available

12.4. Mobility in soil

LEMON ESSENTIAL OIL 100% pure and natural ITALY (84929-31-7)

Mobility in soil No additional information available

12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

14.1. UN number

UN-No.(UN RTDG) : 1169 UN-No. (IMDG) : 1169 UN-No. (IATA) : 1169

14.2. UN Proper Shipping Name

Proper Shipping Name (UN RTDG) : EXTRACTS, AROMATIC, LIQUID (beta-Pinene)
Proper Shipping Name (IMDG) : EXTRACTS, AROMATIC, LIQUID (dipentene; limonene)
Proper Shipping Name (IATA) : EXTRACTS, AROMATIC, LIQUID (dipentene; limonene)

14.3. Transport hazard class(es)

UN RTDG

Transport hazard class(es) (UN RTDG) : 3
Danger labels (UN RTDG) : 3



IMDG

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3
Danger labels (IATA) : 3

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14.4. Packing group

Packing group (UN RTDG) : III
Packing group (IMDG) : III
Packing group (IATA) : III

14.5. Environmental hazards

Dangerous for the environment : Yes Marine pollutant : Yes

Other information : Marine Pollutant : Dipentene, limonene

14.6. Special precautions for user

- UN RTDG

Special provisions (UN RTDG) : 223 Limited quantities (UN RTDG) : 5L Excepted quantities (UN RTDG) : E1

Packing instruction (UN RTDG) : P001, IBC03, LP01

Portable tank and bulk container special

instructions (UN RTDG)

Portable tank and bulk container special : TP1

provisions (UN RTDG)

- IMDG

Special provisions (IMDG): 223, 955Limited quantities (IMDG): 5 LExcepted quantities (IMDG): E1Packing instructions (IMDG): P001, LP01IBC packing instructions (IMDG): IBC03

Tank instructions (IMDG) : T2
Tank special provisions (IMDG) : TP1

EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS

EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS

T2

Stowage category (IMDG) : A

Properties and observations (IMDG) : Usually consist of alcoholic solutions. Miscibility with water depends upon the composition.

- IATA

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) АЗ ERG code (IATA) 3L

14.7. Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

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Full text of H-statements:	
H226	Flammable liquid and vapour
H227	Combustible liquid
H302	Harmful if swallowed

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H303	May be harmful if swallowed
H304	May be fatal if swallowed and enters airways
H313	May be harmful in contact with skin
H315	Causes skin irritation
H316	Causes mild 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
H401	Toxic to aquatic life
H402	Harmful 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

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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