

#### **LIMONENE-L 70**

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

# 1.1. Identification of the substance/mixture

**Trade name: LIMONENE-L 70** Substance name: L-LIMONENE CAS Number: 5989-54-8 CF Number: 227-815-6 UFI:

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

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

#### 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 - SPAIN

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

#### **Hazard pictograms:**









# 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

No Information available



# **LIMONENE-L 70**

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Chemical name: L-LIMONENE
CAS number: 5989-54-8
EC number: 227-815-6

#### **Hazardous constituents:**

Chemical Name	% (w/w)	CAS No EC No	Classification according to GHS	
L-LIMONENE	≥50	5989-54-8 227-815-6	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	
D-LIMONENE	≥10; <25	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-TERPINENE	≥1; <10	99-86-5 202-795-1	Flammable Liquids - Category 3 - H226 Acute Toxicity - Category 4 (oral) - H302 Skin Irritant - Category 3 - H316 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	
TERPINOLENE	≥1; <10	586-62-9 209-578-0	Flammable Liquids - Category 4 - H227 Acute Toxicity - Category 5 (oral) - H303 Skin Irritant - Category 3 - H316 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	
PARA-CYMENE	≥1; <10	99-87-6 202-796-7	Flammable Liquids - Category 3 - H226 Acute Toxicity - Category 5 (oral) - H303 Skin Irritant - Category 3 - H316 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	
GAMMA-TERPINENE	≥1; <10	99-85-4 202-794-6	Flammable Liquids - Category 3 - H226 Acute Toxicity - Category 5 (oral) - H303 Skin Irritant - Category 3 - H316 Toxic to reproduction - Category 2 - H361 Aspiration hazard - Category 1 - H304	
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	

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

#### 3.2. Mixtures

Not applicable.

# 4. FIRST-AID MEASURES

# 4.1. Description of necessary first aid measures

Ingestion: Rinse mouth with water.
Obtain medical advice.

Keep at rest. Do not induce vomiting.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes and seek medical advice.



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Inhalation: Remove person to fresh air and keep at rest.

Seek immediate medical advice.

Skin contact: 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).

# 7.3. Specific end use(s)

No information available.

# 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

# 8.1. Control parameters

Components with occupational exposure limits: None known.



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#### 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

Chemical safety goggles are recommended. Wash contaminated goggles before reuse. Eve/Face protection: Hand Protection: Chemical-resistant gloves are recommended. Wash contaminated gloves before reuse.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks

involved.

**Respiratory Protection:** In case of insufficient ventilation, use suitable respiratory equipment.

Environmental exposure controls: 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

### 9.1. Information on basic physical and chemical properties

Appearance: Liquid

Colour: Conforms to standard Odour: Conforms to standard Odour the shold: Not determined рН: Not determined Melting point/freezing point: Not determined Boling point/boiling range (°C): ca. 177°C 49 °C Flash point:

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: 0,842-0,847 g/mL (20°C) Relative density: 0,842-0,847 (20°C)

Water solubility: PRACTICALLY INSOLUBLE IN WATER

Solubility in other solvents: SOLUBILITY IN ETHANOL 90°: 1:7 CLEAR+CLEAR

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.

#### 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.



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# 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. 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

	ADR/RID/ADN	IMDG	IATA-ICAO	
14.1. UN Number	UN2319	UN2319	UN2319	
14.2. UN Proper Shipping Name	TERPENE HYDROCARBONS, N.O.S.	TERPENE HYDROCARBONS, N.O.S. (L-LIMONENE)	TERPENE H	YD <mark>ROCARBONS</mark> , N.O.S.
14.3. Transport Hazard Class(es)	3	3	3	
14.4. Packing Group	III	Ш	III y	
14.5. Environmental hazards	Yes	Yes	Yes	
Additional information			// 2	

# 14.6 Special precautions for user

None known

# 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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.



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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.

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.