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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:**

LIME OIL 5X VENTOS LIME OIL 90063-52-8, 68916-84-7 290-010-3

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 4 - H227 Skin Irritant - Category 2 - H315 Eye Irritant - Category 2 - H319 Skin sensitizer - Category 1B - H317 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

2.2. Label Elements





Signal Word: Danger

Hazard statements:

H227 – Combustible liquid.

- 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.
- H361 Suspected of damaging fertility or the unborn child.
- H411 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. P305+P351+P338+P337+P313 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.



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2.3. Other hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Chemical name: CAS number: EC number: LIME OIL 90063-52-8, 68916-84-7 290-010-3

Hazardous constituents:

Chemical Name	% (w/w)	CAS No. EC No.	Classification according to GHS	
TERPINEOL	≥25; <50	98-55-5 202-680-6	Flammable Liquids - Category 4 - H227 Acute Toxicity - Category 5 (oral) - H303 Skin Irritant - Category 2 - H315 Eye Irritant - Category 2A - H319 Hazardous to the aquatic environment, short-term (acute) - Category 2 - H401	
L-BETA-BISABOLENE	≥1; <10	495-61-4 NOT LISTED	Acute Toxicity - Category 4 (inhalation) - H332 Skin Irritant - Category 2 - H315 Skin sensitizer - Category 1B - H317 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	
BETA-FARNESENE	≥1;<10	18794-84-8 242-582-0	Skin Irritant - Category 3 - H316 Aspiration hazard - Category 1 - H304	
TERPINOLENE	≥1; <10	586-62-9 209-578-0	Aspiration hazard - Category 1 - H304 Flammable Liquids - Category 4 - H227 Acute Toxicity - Category 5 (oral) - H303 Skin Irritant - Category 3 - H316 Skin sensitizer - Category 1 - 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	
LIMONENE	≥1; <10	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-TERPINEOL	≥1; <10	138-87-4 205-342-6	Flammable Liquids - Category 4 - H227 Acute Toxicity - Category 5 (oral) - H303 Skin Irritant - Category 2 - H315 Eye Irritant - Category 2A - H319 Hazardous to the aquatic environment, short-term (acute) - Category 3 - H402	
BORNEOL	≥1; <10	507-70-0 208-080-0	Flammable Solids - Category 2 - H228 Skin Irritant - Category 2 - H315 Serious eye damage - Category 1 - H318 Hazardous to the aquatic environment, short-term (acute) - Category 2 - H401 Hazardous to the aquatic environment, long-term (chronic) - Category 2 - H411	
BETA-CARYOPHYLLENE	≥1; <10	87-44-5 201-746-1	Skin sensitizer - Category 1B - H317 Aspiration hazard - Category 1 - H304	
TERPINEN-4-OL	≥1; <10	562-74-3 209-235-5	Flammable Liquids - Category 4 - H227 Acute Toxicity - Category 3 (inhalation) - H331 Acute Toxicity - Category 4 (oral) - H302 Acute Toxicity - Category 5 (dermal) - H313 Skin Irritant - Category 2 - H315	



SAFETY DATA SHEET Conforms to the requirements of the Global Harmonized System (GHS)

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CITRAL	≥1; <10		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

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.
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.



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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:

Chemical Name	CAS No.	Norm.	8 hr.			15 min.		
Chemical Name	CAS NO.	Norm.	0	ppm	mg/m ³	ppm	mg/m ³	
CITRAL 5392-40-	5202 40 5	ES (España) 1	VLA-ED	5		VLA-EC		
	5592-40-5	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

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Eye/Face protection:	Chemical safety goggles are recommended. Wash contaminated goggles before reuse.			
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

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:	65 °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:	0,895—0,92 g/mL (20°C)	
Relative density: 0,895–0,92 (20°C)		
Water solubility: INSOLUBLE IN WATER		
Solubility in other solvents: SOLUBLE IN ETHANOL		
Partition coefficient n-octanol/water: Not determined		



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- Auto-ignition temperature: Decomposition temperature: Viscosity, dynamic: Viscosity, kinematic: Explosive properties: Oxidising properties:
- Not determined Not determined Not determined Not determined Not determined 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.

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	Causes serious eye irritation.			
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	Suspected of damaging fertility or the unborn child.			
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: 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.



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14. TRANSPORT INFORMATION

	ADR/RID/ADN	IMDG	IATA-ICAO
14.1. UN Number	UN3082	UN3082	UN3082
14.2. UN Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE)
14.3. Transport Hazard Class(es)	9	9	9
14.4. Packing Group	111	111	111
14.5. Environmental hazards	Yes	Yes	Yes
Additional information			

14.6 Special precautions for user

None known

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.
- H228 Flammable solid.
- H302 Harmful if swallowed.
- H303 May be harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H313 May ne 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. H320 – Causes eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- 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.

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.