

**NUTMEG OIL, RECTIFIED**

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

### 1.1. Identification of the substance/mixture

**Trade name:** NUTMEG OIL, RECTIFIED  
**Substance name:** NUTMEG OIL  
**CAS Number:** 84082-68-8, 8008-45-5  
**CE Number:** 282-013-3

### 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 3 - H226  
Acute Toxicity - Category 5 (oral) - H303  
Skin sensitizer - Category 1 - H317  
Germ cell mutagenicity - Category 2 - H341  
Carcinogenicity - Category 1B - H350  
Toxic to reproduction - Category 2 - H361  
Aspiration hazard - Category 1 - H304  
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.  
H303 – May be harmful if swallowed.  
H304 – May be fatal if swallowed and enters airways.  
H317 – May cause an allergic skin reaction.  
H341 – Suspected of causing genetic defects.  
H350 – May cause cancer.  
H361 – Suspected of damaging fertility or the unborn child.  
H411 – Toxic to aquatic life with long lasting effects.

**Precautionary statements:**

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

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**2.3. Other hazards**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

Chemical name: NUTMEG OIL  
CAS number: 84082-68-8, 8008-45-5  
EC number: 282-013-3

**Hazardous constituents:**

Chemical Name	% (w/w)	CAS No. EC No.	Classification according to GHS
SABINENE	≥10; <25	3387-41-5 222-212-4	Flammable Liquids - Category 3 - H226 Aspiration hazard - Category 1 - H304
ALPHA-PINENE	≥10; <25	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
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
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 Eye Irritant - Category 2B - H320 Skin sensitizer - Category 1 - H317 Specific target organ toxicity following single exposure - Category 3 (narcotic effects) - H336 Hazardous to the aquatic environment, short-term (acute) - Category 2 - H401
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
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
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 Eye Irritant - Category 2B - H320 Skin sensitizer - Category 1 - 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
SAFROLE	≥1; <10	94-59-7 202-345-4	Acute Toxicity - Category 4 (oral) - H302 Germ cell mutagenicity - Category 2 - H341 Carcinogenicity - Category 1B - H350
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ISOEUGENOL	$\geq 1$ ; <10	97-54-1 202-590-7	Acute Toxicity - Category 4 (oral) - H302 Acute Toxicity - Category 4 (dermal) - H312 Acute Toxicity - Category 4 (inhalation) - H332 Skin Irritant - Category 2 - H315 Eye Irritant - Category 2A - H319 Skin sensitizer - Category 1A - H317 Specific target organ toxicity following single exposure - Category 3 (irritation) - H335 Hazardous to the aquatic environment, short-term (acute) - Category 2 - H401
DELTA-3-CARENE	$\geq 1$ ; <10	13466-78-9 236-719-3	Flammable Liquids - Category 3 - H226 Acute Toxicity - Category 4 (inhalation) - H332 Acute Toxicity - Category 5 (oral) - H303 Skin Irritant - Category 2 - H315 Skin sensitizer - Category 1 - 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
METHYL EUGENOL	$\geq 0.1$ ; <1	93-15-2 202-223-0	Acute Toxicity - Category 4 (oral) - H302 Germ cell mutagenicity - Category 2 - H341 Carcinogenicity - Category 2 - H351 Hazardous to the aquatic environment, short-term (acute) - Category 2 - H401
EUGENOL	$\geq 0.1$ ; <1	97-53-0 202-589-1	Acute Toxicity - Category 5 (oral) - H303 Skin Irritant - Category 3 - H316 Eye Irritant - Category 2A - H319 Skin sensitizer - Category 1B - 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 surrounding 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:

Chemical Name	CAS No.	Norm.	8 hr.			15 min.		
				ppm	mg/m <sup>3</sup>		ppm	mg/m <sup>3</sup>
ALPHA-PINENE	80-56-8	ES (España)	VLA-ED	20	113	VLA-EC		
BETA-PINENE	127-91-3	ES (España)	VLA-ED	20	113	VLA-EC		
DELTA-3-CARENE	13466-78-9	ES (España)	VLA-ED	20	113	VLA-EC		

### 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: 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

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Odour threshold:	Not determined
pH:	Not determined
Melting point/freezing point:	Not determined
Boiling point/boiling range (°C):	Not determined
Flash point:	40 °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:	0,9—0,92 g/mL (20°C)
Relative density:	0,9—0,92 (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.

### 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

<b>Acute toxicity</b>	May be harmful if swallowed.
<b>Skin corrosion/irritation</b>	Based on the data available, the criteria for classification are not met.
<b>Serious eye damage/irritation</b>	Based on the data available, the criteria for classification are not met.
<b>Respiratory or skin sensitisation</b>	May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	Suspected of causing genetic defects.
<b>Carcinogenicity</b>	May cause cancer.
<b>Reproductive toxicity</b>	Suspected of damaging fertility or the unborn child.
<b>STOT-single exposure</b>	Based on the data available, the criteria for classification are not met.
<b>STOT-repeated exposure</b>	Based on the data available, the criteria for classification are not met.
<b>Aspiration hazard</b>	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.

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**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**

	ADR/RID/ADN	IMDG	IATA-ICAO
<b>14.1. UN Number</b>	UN1197	UN1197	UN1197
<b>14.2. UN Proper Shipping Name</b>	EXTRACTS, LIQUID	EXTRACTS, LIQUID (SABINENE, ALPHA-PINENE)	EXTRACTS, LIQUID
<b>14.3. Transport Hazard Class(es)</b>	3	3	3
<b>14.4. Packing Group</b>	III	III	III
<b>14.5. Environmental hazards</b>	Yes	Yes	Yes
<b>Additional information</b>			

**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.  
H302 – Harmful if swallowed.  
H303 – May be harmful if swallowed.  
H304 – May be fatal if swallowed and enters airways.  
H312 – Harmful in contact with skin.  
H313 – May be harmful in contact with skin.  
H315 – Causes skin irritation.  
H316 – Causes mild skin irritation.  
H317 – May cause an allergic skin reaction.  
H319 – Causes serious eye irritation.  
H320 – Causes eye irritation.  
H331 – Toxic if inhaled.  
H332 – Harmful if inhaled.  
H335 – May cause respiratory irritation.  
H336 – May cause drowsiness or dizziness.  
H341 – Suspected of causing genetic defects.  
H350 – May cause cancer.  
H351 – Suspected of causing cancer.  
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.

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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.

