

#### **MANDARINAL FIRMENICH 32048 SAEK**

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

#### 1.1. Identification of the substance/mixture

Trade name:	MANDARINAL FIRMENI
CAS Number:	_
CE Number:	_
UFI:	0E50-S0RY-G000-GT95

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#### 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 4 - H227 Skin Irritant - Category 2 - H315 Eye Irritant - Category 2 - H319 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

#### 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.
- 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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#### Substances responsible for the health hazards:

2-METILUNDECANAL TRANS-2-DODECENAL ALPHA-N-AMYL CINNAMIC ALDEHYDE ALPHA-TERPINENE CITRAL LIMONENE DODECANAL L-ALPHA-PINENE L-BETA-PINENE LINALOOL LINALYL ACETATE METHYL SALICYLATE TERPINOLENE

## 2.3. Other hazards

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

MIXTURE OF AROMATIC SUBSTANCES

Hazardous constituents:

Chemical Name	% (w/w)	CAS No. EC No.	Classification according to GHS				
LIMONENE	≥10; <25	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				
LINALOOL	≥10; <25	78-70-6 201-134-4	Flammable Liquids - Category 4 - H227 Acute Toxicity - Category 5 (oral) - H303 Skin Irritant - Category 2 - H315 Eye Irritant - Category 2A - H319 Skin sensitizer - Category 1B - H317 Hazardous to the aquatic environment, short-term (acute) - Category 3 - H402				
TERPINEOL	≥1; <10	8000-41-7 232-268-1	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				
LINALYL ACETATE	≥1; <10	115-95-7 204-116-4	Flammable Liquids - Category 4 - H227 Skin Irritant - Category 2 - H315 Eye Irritant - Category 2B - H320 Skin sensitizer - Category 1 - H317 Hazardous to the aquatic environment, short-term (acute) - Category 3 - H403				
METHYL METHYLANTHRANILATE	≥1; <10	85-91-6 201-642-6	Flammable Liquids - Category 4 - H227 Acute Toxicity - Category 5 (oral) - H303 Hazardous to the aquatic environment, short-term (acute) - Category 3 - H402 Hazardous to the aquatic environment, long-term (chronic) - Category 3 - H412				
UNDECANAL	≥1; <10	112-44-7 203-972-6	Skin Irritant - Category 2 - H315 Hazardous to the aquatic environment, short-term (acute) - Category 1 - H400 Hazardous to the aquatic environment, long-term (chronic) - Category 1 - H410				
BENZYL ACETATE	≥1; <10	140-11-4 205-399-7	Acute Toxicity - Category 5 (oral) - H303 Hazardous to the aquatic environment, short-term (acute) - Category 2 - H401 Hazardous to the aquatic environment, long-term (chronic) - Category 3 - H412				
TRANS-2-DODECENAL	≥1; <10	20407-84-5 243-797-2	Acute Toxicity - Category 5 (dermal) - H313 Skin Irritant - Category 2 - H315 Eye Irritant - Category 2A - H319 Skin sensitizer - Category 1B - H317 Hazardous to the aquatic environment, short-term (acute) - Category 1 - H400				



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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
GAMMA-TERPINENE	≥0.1; <1	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
L-BETA-PINENE	≥0.1; <1	18172-67-3 242-060-2	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
L-ALPHA-PINENE	≥0.1; <1	7785-26-4 232-077-3	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
DODECANAL	≥0.1; <1	112-54-9 203-983-6	Skin Irritant - Category 2 - H315 Eye Irritant - Category 2A - H319 Skin sensitizer - Category 1B - H317
2-METILUNDECANAL	≥0.1; <1	110-41-8 203-765-0	Flammable Liquids - Category 4 - H227 Skin Irritant - Category 2 - H315 Skin sensitizer - Category 1B - H317 Hazardous to the aquatic environment, short-term (acute) - Category 1 - H400 Hazardous to the aquatic environment, long-term (chronic) - Category 1 - H410
ALPHA-N-AMYL CINNAMIC ALDEHYDE	≥0.1; <1	122-40-7 204-541-5	Acute Toxicity - Category 5 (oral) - H303 Skin Irritant - Category 3 - H316 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 2 - H411
CITRAL	≥0.1; <1	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
TERPINOLENE	≥0.1; <1	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	≥0.1; <1	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 2 B - 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
METHYL SALICYLATE	≥0.1; <1	119-36-8 204-317-7	Acute Toxicity - Category 4 (oral) - H302 Serious eye damage - Category 1 - H318 Skin sensitizer - Category 1B - H317 Toxic to reproduction - Category 2 - H361 Hazardous to the aquatic environment, short-term (acute) - Category 3 - H402 Hazardous to the aquatic environment, long-term (chronic) - Category 3 - H412

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



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#### **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.

# 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.



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# 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### 8.1. Control parameters

#### Components with occupational exposure limits:

Chemical Name	CAS No.	Norm.	8 hr.			15 min.		
chemicat Name			0	ppm	mg/m <sup>3</sup>		ppm	mg/m <sup>3</sup>
BENZYL ACETATE	140-11-4	ES (España)	VLA-ED	10	62	VLA-EC		
		Cal OSHA	PEL-TWA	10	61	PEL-STEL		
CITRAL	5392-40-5	ES (España) 1	VLA-ED	5		VLA-EC		
		PL (Polska)	NDS		27	NDSCh		54

<sup>1</sup> 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:	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:	63 °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:	0,951—0,961 g/mL (20°C)
Relative density:	0,951—0,961 (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.



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#### 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	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: 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				
	ADR/RID/ADN	1	IMDG		IATA-ICAO	
14.1. UN Number	UN3082		UN3082	1	UN3082	
14.2. UN Proper Shipping Name	ENVIRONMENTALLY HAZARD	OUS	ENVIRONMENTAL	LY HAZARDOUS	ENVIRONMEN	TALLY HAZARDOUS
	SUBSTANCE, LIQUID, N.O.S.		SUBSTANCE, LIQU	JID, N.O.S.	SUBSTANCE, L	IQUID, N.O.S.
	(LIMONENE)		(LIMONENE)		(LIMONENE)	
14.3. Transport Hazard Class(es)	9		9		9	-
14.4. Packing Group	111		III		III	/
14.5. Environmental hazards	Yes		Yes		Yes	
Additional information		1				

# 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.
- 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.
- 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.