

## **TANGERINE 184096 FIRMENICH**

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

## 1.1. Identification of the substance/mixture

Trade name: TANGERINE 184096 FIRMENICH

CAS Number: —
CE Number: —

### 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 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

## **Hazard pictograms:**







#### 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.

 ${\tt P280-Wear\ protective\ gloves/protective\ clothing/eye\ protection/face\ protection.}$ 

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:

1-(5,6,7,8-Tetrahydro-2-naphthalenyl) ethanone 2,6,10-TRIMETHYL-9-UNDECENAL TRANS-2-DODECENAL 2-METILUNDECANAL 3,5,5-TRIMETHYLHEXANAL HEXYL CINNAMIC ALDEHYDE ALPHA-PINENE ALPHA-TERPINENE BENZYL ALCOHOL BETA-PINENE CITRAL CYCLOPENTADECANOLIDE LIMONENE CITRONELLOL DODECANAL GERANIOL LINALOOL LINALYL ACETATE **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	≥1; <10	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	
ORANGE FLOWER ETHER	≥1; <10	14576-08-0 238-620-0	Flammable Liquids - Category 4 - H227 Skin Irritant - Category 2 - H315 Hazardous to the aquatic environment, short-term (acute) - Category 3 - H402 Hazardous to the aquatic environment, long-term (chronic) - Category 3 - H412	
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 - H402	
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	
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# **SAFETY DATA SHEET**

# Conforms to the requirements of the Global Harmonized System (GHS)

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TRANS-2-DODECENAL	≥1;<10	4826-62-4 225-402-5	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	
1-(5,6,7,8-Tetrahydro-2-naphthalenyl) ethanone	≥1; <10	774-55-0 212-266-7	Acute Toxicity - Category 5 (oral) - H303 Skin Irritant - Category 2 - H315 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	
HEXYL CINNAMIC ALDEHYDE	≥0.1; <1	101-86-0 202-983-3	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 1 - H400 Hazardous to the aquatic environment, long-term (chronic) - Category 2 - H411	
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	
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	
BENZYL ALCOHOL	≥0.1; <1	100-51-6 202-859-9	Acute Toxicity - Category 4 (oral) - H302 Eye Irritant - Category 2 - H319 Skin sensitizer - Category 1B - H317	
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 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	
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	
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	
BETA-PINENE	≥0.1; <1	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	
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	



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3,5,5-TRIMETHYLHEXANAL	≥0.1; <1	5435-64-3 226-603-0	Flammable Liquids - Category 3 - H226 Acute Toxicity - Category 5 (oral) - H303 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 3 - H402
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
CYCLOPENTADECANOLIDE	≥0.1; <1	106-02-5 203-354-6	Skin Irritant - Category 3 - H316 Skin sensitizer - Category 1B - H317 Hazardous to the aquatic environment, long-term (chronic) - Category 2 - H411
3-(5,5,6-TRIMETHYLBICYCLO[2.2.1]HEPT-2- YL)CYCLOHEXAN-1-OL	≥0.1; <1	3407-42-9 222-294-1	Toxic to reproduction - Category 2 - H361 Hazardous to the aquatic environment, short-term (acute) - Category 1 - H400 Hazardous to the aquatic environment, long-term (chronic) - Category 2 - H411
2,6,10-TRIMETHYL-9-UNDECENAL	≥0.1; <1	141-13-9 205-460-8	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
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
CITRONELLOL	≥0.1; <1	106-22-9 203-375-0	Acute Toxicity - Category 5 (oral) - H303 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 2 - H401
GERANIOL	≥0.1; <1	106-24-1 203-377-1	Acute Toxicity - Category 5 (oral) - H303 Skin Irritant - Category 2 - H315 Serious eye damage - Category 1 - H318 Skin sensitizer - Category 1 - H317 Hazardous to the aquatic environment, short-term (acute) - Category 3 - H402

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

## 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 <mark>medical</mark> 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.



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## 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:

Chemical Name	CAS No.	Norm.	8 hr.			15 min.		
			-	ppm	mg/m³		ppm 📜	mg/m³
BENZYL ACETATE	140-11-4	ES (España)	VLA-ED	10	62	VLA-EC	-/-	
		Cal OSHA	PEL-TWA	10	61	PEL-STEL	1	
ALPHA-PINENE	80-56-8	ES (España)	VLA-ED	20	113	VLA-EC	1	1
BENZYL ALCOHOL	100-51-6	DE	AGW	5	22	AGW		
		(Deutschland)						
BETA-PINENE	127-91-3	ES (España)	VLA-ED	20	113	VLA-EC		
CITRAL	5392-40-5	ES (España) 1	VLA-ED	5		VLA-EC		
		PL (Polska)	NDS	- 1	27	NDSCh	1	54

<sup>&</sup>lt;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.



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#### 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: 67 °C

Evaporation rate:

Flammability:

Lower flammability/Explosive limit:

Vapour pressure:

Not determined

Density: 0,985-0,995 g/mL (20°C) Relative density: 0,985-0,995 (20°C) **INSOLUBLE IN WATER** Water solubility: SOLUBLE IN ETHANOL Solubility in other solvents: 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	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

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



## **TANGERINE 184096 FIRMENICH**

# **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.