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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: CE Number: 2,3-PENTANEDIONE NATURAL EU 2,3-PENTANEDIONE 600-14-6 209-984-8

#### 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 2 - H225 Acute Toxicity - Category 5 (oral) - H303 Acute Toxicity - Category 5 (dermal) - H313 Skin Irritant - Category 3 - H316 Serious eye damage - Category 1 - H318 Skin sensitizer - Category 1B - H317 Specific target organ toxicity following repeated exposure - Category 2 - H373 Hazardous to the aquatic environment, short-term (acute) - Category 3 - H402

### 2.2. Label Elements



Signal Word: Danger

#### Hazard statements:

H225 – Highly flammable liquid and vapour.

- H303 May be harmful if swallowed.
- H313 May ne harmful in contact with skin.
- H316 Causes mild skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H402 Harmful to aquatic life.

# Precautionary statements:

P210 – Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

- P233 Keep container tightly closed.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- 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+P310 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

P312 – Call a POISON CENTER or doctor/physician if you feel unwell.

P403+P235 – Store in a well-ventilated place. Keep cool.



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# 2.3. Other hazards

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1. Substances

Chemical name: CAS number: EC number: 2,3-PENTANEDIONE 600-14-6 209-984-8

#### Hazardous constituents:

Chemical Name	% (w/w)	CAS No. EC No.	Classification according to GHS
2,3-PENTANEDIONE	≥50	600-14-6 209-984-8	Flammable Liquids - Category 2 - H225 Acute Toxicity - Category 5 (oral) - H303 Acute Toxicity - Category 5 (dermal) - H313 Skin Irritant - Category 3 - H316 Serious eye damage - Category 1 - H318 Skin sensitizer - Category 1B - H317 Specific target organ toxicity following repeated exposure - Category 2 - H373 Hazardous to the aquatic environment, short-term (acute) - Category 3 - H402

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. FI	<b>RE-FI</b>	GHTIN	EASURE

### 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.



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## 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.		
chemical Name	CAS NO.		0	ppm	mg/m³	15 1111.	ppm	mg/m <sup>3</sup>
2,3-PENTANEDIONE	600-14-6	DE (Deutschland)	AGW	0.02	0.08	AGW		

#### 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

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

Appearance:
Colour:
Odour:
Odour theshold:
pH:
Melting point/freezing point:
Boling point/boiling range (°C):
Flash point:
Evaporation rate:

Conforms to standard Conforms to standard Not determined -52 108 18 °C Not determined

Liquid



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

## **2,3-PENTANEDIONE NATURAL EU**

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Flammability: Lower flammability/Explosive limit: Upper flammability/Explosive limit: Vapour pressure: Vapour Density: Density: **Relative density:** Water solubility: Solubility in other solvents: Partition coefficient n-octanol/water: Auto-ignition temperature: Decomposition temperature: Viscosity, dynamic: Viscosity, kinematic: Explosive properties: Oxidising properties:

Not determined Not determined Not determined 28,5 hPa (20°C) 3,45 (AIR = 1) 0,954-0,966 g/mL (20°C) 0,954-0,966 (20°C) SOLUBLE IN WATER (60g/l 20°C) SOLUBLE IN ETHANOL log Kow -0,85 265°C 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	May be harmful if swallowed. May ne harmful in contact with skin.	
Skin corrosion/irritation	Causes mild skin irritation.	
Serious eye damage/irritation	Causes serious eye damage.	
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	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	Based on the data available, the criteria for classification are not met.	

# **12. ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

Assessment: Harmful to aquatic life. Experimental/calculated data: No information available.

#### **12.2. Persistence and degradability** No information available.

12.3. Bioaccumulative potential

No information available.



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# 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	UN1224	UN1224	UN1224
14.2. UN Proper Shipping Name	KETONES, LIQUID, N.O.S. (2,3- PENTANEDIONE)	KETONES, LIQUID, N.O.S. (2,3- PENTANEDIONE)	KETONES, LIQUID, N.O.S. (2,3- PENTANEDIONE)
14.3. Transport Hazard Class(es)	3	3	3
14.4. Packing Group	II	11	11
14.5. Environmental hazards	No	No	No
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:

- H225 Highly flammable liquid and vapour.
- H303 May be harmful if swallowed.
- H313 May ne harmful in contact with skin.
- H316 Causes mild skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H373 May cause damage to organs through prolonged or repeated exposure.

H402 – Harmful to aquatic life.

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.