

**BENZALDEHYDE NATURAL EU BESTALLY**

Revision date: 24-01-2023  
Version: 4.0/GHS/EN

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

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

**Trade name:** BENZALDEHYDE NATURAL EU BESTALLY  
**Substance name:** BENZALDEHYDE  
**CAS Number:** 100-52-7  
**CE Number:** 202-860-4

**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  
Acute Toxicity - Category 4 (oral) - H302  
Acute Toxicity - Category 4 (inhalation) - H332  
Acute Toxicity - Category 5 (dermal) - H313  
Skin Irritant - Category 3 - H316  
Eye Irritant - Category 2A - H319  
Specific target organ toxicity following single exposure - Category 3 (irritation) - H335  
Hazardous to the aquatic environment, short-term (acute) - Category 2 - H401

**2.2. Label Elements**

**Hazard pictograms:**



**Signal Word:**

Warning

**Hazard statements:**

H227 – Combustible liquid.  
H302 – Harmful if swallowed.  
H313 – May be harmful in contact with skin.  
H316 – Causes mild skin irritation.  
H319 – Causes serious eye irritation.  
H332 – Harmful if inhaled.  
H335 – May cause respiratory irritation.  
H401 – Toxic to aquatic life.

**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.  
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.  
P332+P313 – If skin irritation occurs: Get medical advice/attention.  
P403+P233 – Store in a well-ventilated place. Keep container tightly closed.

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**2.3. Other hazards**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

Chemical name: BENZALDEHYDE  
CAS number: 100-52-7  
EC number: 202-860-4

**Hazardous constituents:**

Chemical Name	% (w/w)	CAS No. EC No.	Classification according to GHS
BENZALDEHYDE	≥50	100-52-7 202-860-4	Flammable Liquids - Category 4 - H227 Acute Toxicity - Category 4 (oral) - H302 Acute Toxicity - Category 4 (inhalation) - H332 Acute Toxicity - Category 5 (dermal) - H313 Skin Irritant - Category 3 - H316 Eye Irritant - Category 2A - H319 Specific target organ toxicity following single exposure - Category 3 (irritation) - H335 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.

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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:  
None known.

**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 threshold:	Not determined
pH:	Not determined
Melting point/freezing point:	-26
Boiling point/boiling range (°C):	179 (760 mm Hg);112,5 (100 mm)
Flash point:	64 °C
Evaporation rate:	0,04 (BUTYL ACETATE = 1)
Flammability:	Not determined
Lower flammability/Explosive limit:	Not determined
Upper flammability/Explosive limit:	Not determined
Vapour pressure:	0,75 mm Hg 20°C;10 mm Hg 62°C
Vapour Density:	3,66 (AIR = 1)
Density:	1,041—1,046 g/mL (20°C)
Relative density:	1,041—1,046 (20°C)

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Water solubility:	SOLUBILITY IN WATER: 0,6%
Solubility in other solvents:	SOLUBLE IN ETHANOL
Partition coefficient n-octanol/water:	Not determined
Auto-ignition temperature:	192°C
Decomposition temperature:	Not determined
Viscosity, dynamic:	1,4 CENTIPOISE (25°C)
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>	Harmful if swallowed. May be harmful in contact with skin. Harmful if inhaled.
<b>Skin corrosion/irritation</b>	Causes mild skin irritation.
<b>Serious eye damage/irritation</b>	Causes serious eye irritation.
<b>Respiratory or skin sensitisation</b>	Based on the data available, the criteria for classification are not met.
<b>Germ cell mutagenicity</b>	Based on the data available, the criteria for classification are not met.
<b>Carcinogenicity</b>	Based on the data available, the criteria for classification are not met.
<b>Reproductive toxicity</b>	Based on the data available, the criteria for classification are not met.
<b>STOT-single exposure</b>	May cause respiratory irritation.
<b>STOT-repeated exposure</b>	Based on the data available, the criteria for classification are not met.
<b>Aspiration hazard</b>	Based on the data available, the criteria for classification are not met.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Assessment:

Toxic to aquatic life.

#### Experimental/calculated data:

No information available.

### 12.2. Persistence and degradability

The product is readily biodegradable

### 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.

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### 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>	UN1990	UN1990	UN1990
<b>14.2. UN Proper Shipping Name</b>	BENZALDEHYDE	BENZALDEHYDE	BENZALDEHYDE
<b>14.3. Transport Hazard Class(es)</b>	9	9	9
<b>14.4. Packing Group</b>	III	III	III
<b>14.5. Environmental hazards</b>	No	No	No
<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:

H227 – Combustible liquid.  
H302 – Harmful if swallowed.  
H313 – May be harmful in contact with skin.  
H316 – Causes mild skin irritation.  
H319 – Causes serious eye irritation.  
H332 – Harmful if inhaled.  
H335 – May cause respiratory irritation.  
H401 – Toxic 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.