

DIACETYL NATURAL

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

1.1. Identification of the substance/mixture

Trade name: DIACETYL NATURAL
Substance name: DIACETYL
CAS Number: 431-03-8
CE Number: 207-069-8

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 3 (inhalation) - H331
Acute Toxicity - Category 4 (oral) - H302
Skin Irritant - Category 2 - H315
Serious eye damage - Category 1 - H318
Skin sensitizer - Category 1 - 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

Hazard pictograms:



Signal Word:

Danger

Hazard statements:

H225 – Highly flammable liquid and vapour.
H302 – Harmful if swallowed.
H315 – Causes skin irritation.
H317 – May cause an allergic skin reaction.
H318 – Causes serious eye damage.
H331 – Toxic if inhaled.
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.
P304+P340+P311 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.
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.

2.3. Other hazards

No additional hazards identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Chemical name: DIACETYL
CAS number: 431-03-8
EC number: 207-069-8

Hazardous constituents:

Chemical Name	% (w/w)	CAS No EC No	Classification according to GHS
DIACETYL	≥50	431-03-8 207-069-8	Flammable Liquids - Category 2 - H225 Acute Toxicity - Category 3 (inhalation) - H331 Acute Toxicity - Category 4 (oral) - H302 Skin Irritant - Category 2 - H315 Serious eye damage - Category 1 - H318 Skin sensitizer - Category 1 - 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. 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 ³		ppm	mg/m ³
DIACETYL	431-03-8	DE (Deutschland)	Arbeitsplatzgrenzwert	0.02	0.07	Arbeitsplatzgrenzwert		
		ES (España)	VLA-ED	0.02	0.07	VLA-EC	0.1	0.36
		FR (France)	VME	0.02	0.07	VLCT	0.1	0.36
		IT (Italia)	Valori Limite	0.02	0.07	Valori Limite	0.1	0.36
		UK (United Kingdom)	Workplace exposure limit	0.02	0.07	Workplace exposure limit	0.1	0.36

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:

Liquid

Colour:

Conforms to standard

Odour:

Conforms to standard

Odour threshold:	Not determined
pH:	Not determined
Melting point/freezing point:	-4 / -2
Boiling point/boiling range (°C):	86 - 90
Flash point:	5 °C
Evaporation rate:	Not determined
Flammability:	Not determined
Lower flammability/Explosive limit:	Not determined
Upper flammability/Explosive limit:	Not determined
Vapour pressure:	65 mbar 20°C
Vapour Density:	2,97 (AIR = 1)
Density:	0,979—0,994 g/mL (20°C)
Relative density:	0,979—0,994 (20°C)
Water solubility:	SOLUBILITY IN WATER: 20% w/w 25°C
Solubility in other solvents:	SOLUBLE IN ETHANOL
Partition coefficient n-octanol/water:	LOG Pow -1,34 (ESTIMATED)
Auto-ignition temperature:	365°C (ASTM D2155-631)
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

Acute toxicity	Harmful if swallowed. Toxic if inhaled.
Skin corrosion/irritation	Causes 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. 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	UN2346	UN2346	UN2346
14.2. UN Proper Shipping Name	BUTANEDIONE	BUTANEDIONE	BUTANEDIONE
14.3. Transport Hazard Class(es)	3	3	3
14.4. Packing Group	II	II	II
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.

H302 – Harmful if swallowed.

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H317 – May cause an allergic skin reaction.

H318 – Causes serious eye damage.

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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.