

	Natural Flavour DELSA 45277 Bull´s tail	Version: 2
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:	Natural Flavour DELSA 45277 Bull´s tail
Product Reference: Unique Formula Identifier: Printing date: 13/09/2023	45277
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Relevant identified uses of the substance or mixture:	Flavouring for food. Only for industrial use.
Uses advised against:	Other uses than those recommended.
Revision date: 13/09/2023	Version: 2
1.3 Details of the supplier of the safety data sheet:	Derivados Esenciales de Limón, S.A.
Address:	Parque Empresarial PIBO Avda. Mairena del Aljarafe, 5 Apto. Correos 10 - C.P. 41110 Bollullos de la Mitación (Sevilla) Spain Phone Number. +34 955 776 563 – Fax. +34 955 776 540 e-mail: delsa@delsa.es
1.4 Emergency telephone number:	Phone number: +34 955 776 563 Monday to Friday 9-14 hr. and 15-17 hr.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008

Long-term (chronic) aquatic hazard, category chronic 3; H412.

2.2 Label elements

Signal word: -

Hazard Statements:

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements:

P273: Avoid release to the environment.

P501: Dispose of contents/container to an approved waste disposal plant.

Contains butanedione, 3,7,7-trimethylbicyclo[4.1.0]hept-3-ene, (R)-p-mentha-1,8-diene, pin-2(10)-ene, pin-2(3)-ene, diallyl disulphide, cineole. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

The product does not contain substances identified as PBT and/or vPvB in a concentration equal to or

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<p>Environmental endocrine disrupting properties.</p> <p>Human health endocrine disrupting properties.</p>	<p>greater than 0,1 % (w/w).</p> <p>The product does not contain substances identified as having environmental endocrine disrupting properties in a concentration equal to or greater than 0,1 % (w/w).</p> <p>The product does not contain substances identified as having human health endocrine disrupting properties in a concentration equal to or greater than 0,1 % (w/w).</p>
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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Concentration range of the constituent (% weight/weight)	EC number / Registration number	CAS	Chemical name	Hazard Class and Category Code; Hazard statement codes
≥1% and <5%	200-578-6	64-17-5	Ethanol	Flam. Liq. 2;H225- Eye Irrit. 2;H319
≥0,1% and <1%	207-069-8	431-03-8	Butanedione	Flam. Liq. 2;H225- Acute Tox. 3;H331- Acute Tox. 4;H302- Skin Irrit. 2;H315- Eye Dam. 1;H318- Skin Sens. 1;H317- STOT RE 2;H373
≥0,1% and <1%	236-719-3	13466-78-9	3,7,7-trimethylbicyclo[4.1.0]hept-3-ene	Flam. Liq. 3;H226- Skin Irrit. 2;H315- Skin Sens. 1B;H317- Asp. Tox. 1;H304
≥0,1% and <1%	227-813-5	5989-27-5	(R)-p-mentha-1,8-diene	Flam. Liq. 3;H226- Skin Irrit. 2;H315- Skin Sens. 1B;H317- Asp. Tox. 1;H304- Aquatic Acute 1;H400- Aquatic Chronic 3;H412
≥0,1% and <1%	204-872-5	127-91-3	Pin-2(10)-ene	Flam. Liq. 3;H226- Skin Irrit. 2;H315- Skin Sens. 1B;H317- Asp. Tox. 1;H304- Aquatic Acute 1;H400- Aquatic Chronic 1;H410
≥0,1% and <1%	201-291-9	80-56-8	Pin-2(3)-ene	Flam. Liq. 3;H226- Skin Irrit. 2;H315- Skin Sens. 1B;H317- Asp. Tox. 1;H304- Aquatic Acute 1;H400- Aquatic Chronic 1;H410

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≥0,1% and <1%	218-548-6	2179-57-9	Diallyl disulphide	Flam. Liq. 3;H226-Acute Tox. 3;H301 (ATE=260 mg/kg)-Skin Irrit. 2;H315- Eye Irrit. 2;H319- Skin Sens. 1B;H317
≥0,1% and <1%	207-431-5	470-82-6	Cineole	Flam. Liq. 3;H226-Skin Sens. 1B;H317

See section 16 for the full text of the Hazard statement codes declared above.

SECTION 4: First aid measures

4.1 Description of first aid measures

- Consumption: If swallowed, rinse mouth with water.
Seek medical advice immediately and show this container or label.
Keep the person at rest. Do NOT induce vomiting.
- Eye contact: Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water and seek medical advice.
- Inhalation: Remove person to fresh air and keep at rest.
- Skin contact: Remove contaminated clothing. Wash skin with mild soap and water, rinse abundantly. If symptoms persist, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed:

Read label before use. No additional information available.

4.3 Indication of any immediate medical attention and special treatment needed

Not available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media: 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: Not applicable.

5.3 Advice for firefighters:

- In case of fire in the surrounding area, follow the recommendations below:
- 1-Closed containers may build up pressure at elevated temperatures.
 - 2-Avoid inhalation of fumes or vapours. Use appropriate respiratory protection.
 - 3-Prevent run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

- Wear appropriate gloves to prevent skin exposure.
Avoid breathing vapours. Use a suitable respiratory apparatus if necessary. Avoid contact with eyes and skin.
Maintain adequate ventilation in the working area after spilling.

6.2 Environmental precautions:

- Avoid contaminating the environment via the sewers or water sources.

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6.3 Methods and material for containment and cleaning up:

Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash).

Ventilate area and wash spill site after material pickup is complete.

Dispose of in accordance with current laws and regulations.

6.4 Reference to other sections:

See also sections 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Keep away from food, drink and animal feedingstuffs. Do not smoke.

Avoid contact with skin and eyes.

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities:

Keep the product in its original container well sealed, in a dry and ventilated area, away from potential sources of ignition and protected from light. Store in accordance with local/national regulations and follow the warnings on the label.

Keep away from incompatible substances (see section 10).

7.3 Specific end use(s):

Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits:

United Kingdom			
Substance	Long-term exposure limit (8-hour TWA reference period)	Short-term exposure limit (15-minute reference period)	Notation
Ethanol	1920 mg/m ³		-
Propane-1,2-diol	10 mg/m ³		-

8.2 Exposure controls

Personal protection equipment:

Appropriate personal protective equipment shall be worn in accordance with Regulation (EU) 2016/425.

Engineering Controls-Ventilation

The areas where the product is handled and stored should be adequately ventilated.

Eye/Face protection:

Chemical safety goggles are recommended. Wash contaminated goggles before reuse.

Respiratory Protection:

Use personal breathing apparatus whenever deemed necessary.

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Skin Protection:

Avoid contact with skin. Wear suitable gloves (EN 374).

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Colourless-Slightly yellowish
Odour:	Conforms to standard
Odour threshold:	No data available
pH value:	No data available
Evaporation rate:	No data available
Melting point:	No data available
Boiling point:	No data available
Flash point:	> 100 °C
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Water solubility:	No data available
Partition coefficient: n-octanol/water:	No data available
Viscosity:	No data available
Kinematic viscosity:	No data available
Oxidising properties:	No data available
Explosive properties:	No data available
Lower explosive limit:	No data available
Upper explosive limit:	No data available

9.2 Other information

Additional information: Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity:	Not available.
10.2 Chemical stability:	Stable under normal operating conditions.
10.3 Possibility of hazardous reactions:	
Hazardous Polymerization:	It does not undergo any dangerous reactions under normal conditions.
10.4 Conditions to avoid:	Handle in accordance with good industrial hygiene and safety practice.
10.5 Incompatible materials:	Acids, Caustics, Strong Reducing Agents, Isocyanates, Nitrides, Organic Peroxides and Hydroperoxides, Epoxides.
10.6 Hazardous decomposition products:	Carbon monoxide and other unidentified organic compounds may be formed upon combustion.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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Acute toxicity:	This mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.
Skin corrosion/irritation:	This mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.
Serious eye damage/irritation:	This mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.
Respiratory or skin sensitisation:	This mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.
Germ cell mutagenicity:	This mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.
Carcinogenicity:	This mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.
Reproductive toxicity:	This mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.
STOT-single exposure:	This mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.
STOT-repeated exposure:	This mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.
Aspiration toxicity:	This mixture does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.

11.2 Information on other hazards:
Endocrine disrupting properties.:

The product does not contain substances identified as having human health endocrine disrupting properties in a concentration equal to or greater than 0,1 % (w/w).

Substance	Acute oral toxicity (LD50)	Acute dermal toxicity (LD50)	Acute Inhalation toxicity (LC50 Dusts and Mists)	Acute Inhalation toxicity (LC50 Vapours)
Diallyl disulphide	260 mg/kg			

SECTION 12: Ecological information

12.1 Acute aquatic toxicity: Not determined

12.2 Persistence and degradability: Not available.

12.3 Bioaccumulative potential: Not determined

12.4 Mobility in soil: Not available.

12.5 Results of PBT and vPvB assessment:

The product does not contain substances identified as PBT and/or vPvB in a concentration equal to or greater than 0,1 % (w/w).

12.6 Endocrine disrupting properties.:

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The product does not contain substances identified as having environmental endocrine disrupting properties in a concentration equal to or greater than 0,1 % (w/w).

12.7 Other adverse effects: Not available.
Do not allow the material to enter streams, sewers or other waterways.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Container disposal: Do not reuse empty containers. Containers must be disposed of as hazardous waste.

Disposal conditions: Dispose of in accordance with all state and local environmental regulations. This material and its container must be disposed of in a safe way.

SECTION 14: Transport information

International Carriage of Dangerous Goods by Road (ADR)

14.1 UN No.: Not applicable

14.2 Proper Shipping Name: Not subject to ADR.

14.3 Class: -

14.4 Packing Group: -

14.6 Special precautions for user:

Tunnel restriction code: -

Label: -

Sea Transport (IMDG)

14.1 UN No.: Not applicable

14.2 Proper Shipping Name: Not restricted.

14.3 Class: -

14.4 Packing Group: -

14.5 Marine Pollutant: No

14.6 Special precautions for user:

IMDG-Code segregation group: -

EmS: -

Label: -

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable

Air Transport (ICAO/IATA)

14.1 UN No.: Not applicable

14.2 Proper Shipping Name: Not restricted.

14.3 Class: -

14.4 Packing Group: -

14.6 Special precautions for user:

Passenger aircraft: ACCEPTED

Cargo aircraft: ACCEPTED

Label: -

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Substances of very high concern:

The product does not contain substances included in the Substances of Very High Concern list (> 0,1 % w/w).

15.2 Chemical safety assessment:

Not available.

SECTION 16: Other information

Text of hazard statement codes in section 3:

H225:	Highly flammable liquid and vapour.
H226:	Flammable liquid and vapour.
H301:	Toxic if swallowed.
H302:	Harmful if swallowed.
H304:	May be fatal if swallowed and enters airways.
H315:	Causes skin irritation.
H317:	May cause an allergic skin reaction.
H318:	Causes serious eye damage.
H319:	Causes serious eye irritation.
H331:	Toxic if inhaled.
H373:	May cause damage to organs
H400:	Very toxic to aquatic life.
H410:	Very toxic to aquatic life with long lasting effects.
H412:	Harmful to aquatic life with long lasting effects.

This material should only be used for industrial purposes.

Key literature references and sources for data:

1. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
2. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
3. EH40/2005. Workplace exposure limits with amendments.

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determine suitability of this information for his application.

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Reason for Change: First version.