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

1.1. Identification of the substance/mixture

Trade name: **EUGENOL 926 INDESSO**
Substance name: EUGENOL
CAS Number: 97-53-0
CE Number: 202-589-1

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

Acute Toxicity - Category 5 (oral) - H303
Skin Irritant - Category 3 - H316
Eye Irritant - Category 2A - H319
Skin sensitizer - Category 1B - H317
Hazardous to the aquatic environment, short-term (acute) - Category 2 - H401

2.2. Label Elements

Hazard pictograms:

Signal Word:
Warning

Hazard statements:
H303 – May be harmful if swallowed.
H316 – Causes mild skin irritation.
H317 – May cause an allergic skin reaction.
H319 – Causes serious eye irritation.
H401 – Toxic to aquatic life.

Precautionary statements:
P261 – Avoid breathing 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+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.
P312 – Call a POISON CENTER or doctor/physician if you feel unwell.

2.3. Other hazards

No Information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Chemical name: EUGENOL
CAS number: 97-53-0
EC number: 202-589-1

Hazardous constituents:

Chemical Name	% (w/w)	CAS No EC No	Classification according to GHS
EUGENOL	≥50	97-53-0 202-589-1	Acute Toxicity - Category 5 (oral) - H303 Skin Irritant - Category 3 - H316 Eye Irritant - Category 2A - H319 Skin sensitizer - Category 1B - H317 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 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:
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

9.1. Information on basic 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:	-9
Boling point/boiling range (°C):	256°C (1 atm)
Flash point:	110 °C
Evaporation rate:	Not determined
Flammability:	Not determined
Lower flammability/Explosive limit:	Not determined
Upper flammability/Explosive limit:	Not determined
Vapour pressure:	0,009 mm Hg (20°C, calculated)
Vapour Density:	Not determined
Density:	1,064—1,07 g/mL (20°C)
Relative density:	1,064—1,07 (20°C)
Water solubility:	INSOLUBLE IN WATER

Solubility in other solvents:	SOLUBLE IN ETHANOL
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:	Not determined

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. Experimental/calculated data: · LD50(acute/oral) : >2000 mg/kg. (Rat). (OECD 423). · LC50(acute/inh./4h) : >5 mg/L. (Rat). (OECD 403).
Skin corrosion/irritation	Causes mild skin irritation. Experimental/calculated data: · Skin irritation : Non-irritant. (Rabbit). (OECD 404).
Serious eye damage/irritation	Causes serious eye irritation. Experimental/calculated data: · Eye irritation : Irritant. (Rabbit). (OECD 405).
Respiratory or skin sensitisation	May cause an allergic skin reaction. Experimental/calculated data: · LLNA : Sensitizing. (OECD 429). · GPMT : Sensitizing. (OECD 406).
Germ cell mutagenicity	Based on the data available, the criteria for classification are not met. Experimental/calculated data: · Germ cell mutagenicity : Negative.
Carcinogenicity	Based on the data available, the criteria for classification are not met. Experimental/calculated data: · Carcinogenicity : Negative. (OECD 451).
Reproductive toxicity	Based on the data available, the criteria for classification are not met. Experimental/calculated data: · Reproductive Toxicity : Negative. (OECD 414, OECD 416).
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	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:
· Toxicity for fish: LC50 (96h) : 13 mg/L. (Brachydanio rerio). (OECD 203).

· Toxicity for aquatic invertebrates: EC50 (48h) : 1.13 mg/L. (Daphnia magna). (OECD 202).
· Toxicity for algae: ErC50 (96h) : 24 mg/L. (Scenedesmus subspicatus). (OECD 201).

12.2. Degradability
Biodegradation : Readily biodegradable.
DOC reduction (28d) : 82%.

12.3. Bioaccumulative potential
Because of the partition coefficient n-octanol/water, accumulation in organisms is not to be expected.
log Kow : 1.83.

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	Not classified as hazardous goods	Not classified as hazardous goods	Not classified as hazardous goods
14.2. UN Proper Shipping Name	Not applicable	Not applicable	Not applicable
14.3. Transport Hazard Class(es)	Not applicable	Not applicable	Not applicable
14.4. Packing Group	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards	No	No	No
Additional information			

14.6 Special precautions for user
None known

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
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:
H303 – May be harmful if swallowed.
H316 – Causes mild skin irritation.
H317 – May cause an allergic skin reaction.
H319 – Causes serious eye irritation.
H401 – Toxic to aquatic life.