SAFETY DATA SHEET (SDS)

Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) 2020/878 and GHS.

Elemi Heart Essential Oil

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY

Product Name: Elemi Heart Essential Oil
Trade Name: ELEMI EO
Botanical Name: *Canarium luzonicum*
Product Form: Substance (UVCB)
CAS Number: 8023-89-0
EC Number: 945-898-3
REACH Registration Number: 01-2120735788-38
Product Code: 021348
Other CAS Numbers: 97675-63-3 / 9000-75-3
Other EINECS Numbers: 232-557-2 / 307-636-0

Recommended Uses: Industrial use, fragrance ingredient and flavour ingredient.

Supplier:

Aromology Trading LLC
G05 Al Ghazal Building
Nadd Al Hamar
Dubai, United Arab Emirates

Website: www.aromology.com
Email: info@aromology.com
Telephone: +971 505197601

SECTION 2: HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Classification	Category	Hazard Code
Flammable Liquids	Category 3	H226
Skin Irritation	Category 2	H315
Skin Sensitisation	Category 1	H317
Aspiration Hazard	Category 1	H304
Aquatic Chronic Hazard	Category 2	H411

Signal Word: Danger

Hazard Pictograms: GHS02, GHS07, GHS08, GHS09

Hazard Statements:

H226 — Flammable liquid and vapour.
H304 — May be fatal if swallowed and enters airways.
H315 — Causes skin irritation.
H317 — May cause an allergic skin reaction.
H411 — Toxic to aquatic life with long lasting effects.

Precautionary Statements:

P210 — Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 — Keep container tightly closed.
P240 — Ground and bond container and receiving equipment.
P241 — Use explosion-proof electrical/ventilating/lighting equipment.
P261 — Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 — Wash hands, forearms and face thoroughly after handling.

Other Hazards: Contains no PBT or vPvB substances at concentrations ≥0.1%, assessed according to REACH Annex XIII.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance: Essential oil of *Canarium luzonicum* obtained from gum by steam distillation.

CAS Number: 8023-89-0
EC Number: 945-898-3

Chemical Component	CAS Number	Concentration (%)
Limonene	5989-27-5 / 138-86-3 / 5989-54-8	50–80
Alpha-Phellandrene	99-83-2	20–25
p-Cymene	99-87-6	5–10
Terpinolene	586-62-9	5–10
Eucalyptol	470-82-6	1–5
Alpha-Terpineol	98-55-5	1–5
Beta-Phellandrene	555-10-2	1–5
Beta-Pinene	127-91-3	0.1–1
Myrcene	123-35-3	0.1–1
Alpha-Pinene	80-56-8	0.1–1
Eugenyl Methyl Ether	93-15-2	0.1–1

4-Carvomenthenol	562-74-3	0.1–1
Beta-Caryophyllene	87-44-5	0.1–1
p-Mentha-1,3-diene	99-86-5	0.1–1
p-Mentha-1,4-diene	99-85-4	0.1–1
Carvone	99-49-0	0.1–1
Trans-Beta-Ocimene	3779-61-1	0.1–1
Germacrene D	23986-74-5	0.1–1
Cis-Beta-Ocimene	3338-55-4	0.1–1
Carvacrol	499-75-2	0.1–1
Cuminaldehyde	122-03-2	Below 0.1
Linalool	78-70-6	Below 0.1
Toluene	108-88-3	Below 0.1
Delta-3-Carene	13466-78-9	Below 0.1

SECTION 4: FIRST AID MEASURES

General: Call a physician immediately. Never give anything by mouth to an unconscious person.

Inhalation: Move the affected person to fresh air and keep comfortable for breathing. Allow the person to rest.

Skin Contact: Remove contaminated clothing immediately. Wash thoroughly with water. Seek medical attention if irritation or rash develops.

Eye Contact: Rinse immediately with plenty of water. Seek medical attention if pain, blinking or redness persists.

Ingestion: Rinse mouth. Do not induce vomiting. Immediately contact a poison centre or physician.

Symptoms: Skin irritation, allergic skin reaction and risk of lung oedema following ingestion and aspiration.

Treatment: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Foam, dry powder, carbon dioxide, water spray and sand.

Unsuitable Extinguishing Media: Heavy water stream.

Fire Hazard: Flammable liquid and vapour.

Explosion Hazard: May form flammable or explosive vapour-air mixtures.

Hazardous Combustion Products: Toxic fumes may be released.

Firefighter Protection: Self-contained breathing apparatus and complete protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove ignition sources. Avoid sparks, open flames and smoking.

Ventilate the affected area and evacuate unnecessary personnel.

Avoid contact with skin and eyes and inhalation of vapours.

Prevent entry into sewers and public waterways.

Absorb spills with inert material such as clay or diatomaceous earth.

Collect in appropriate containers and dispose of at an authorised facility.

SECTION 7: HANDLING AND STORAGE

Handling:

Ensure adequate ventilation.

Keep away from heat, sparks, open flames and other ignition sources.

Use explosion-proof equipment and non-sparking tools.

Ground and bond containers and receiving equipment.

Avoid skin and eye contact and inhalation of vapours.

Wear appropriate protective equipment.

Do not eat, drink or smoke during handling.

Storage:

Store in original tightly closed containers in a cool, dry, dark and well-ventilated area.

Protect from direct sunlight and heat.

Keep away from strong acids and strong bases.

Maximum Storage Period: 24 months.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Substance	Exposure Limit
Toluene — EU TWA	50 ppm / 192 mg/m³
Toluene — EU STEL	100 ppm / 384 mg/m³
Toluene — France TWA	20 ppm / 76.8 mg/m³
Toluene — France STEL	100 ppm / 384 mg/m³
Toluene — ACGIH TWA	20 ppm
Delta-3-Carene — ACGIH TWA	20 ppm

Engineering Controls: Ensure adequate workplace ventilation.

Eye Protection: Chemical safety goggles or safety glasses.

Hand Protection: Protective gloves.

Skin Protection: Suitable protective clothing.

Respiratory Protection: Use appropriate respiratory protection where ventilation is inadequate.

Environmental Controls: Avoid release into the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Physical State	Liquid
Appearance	Liquid
Colour	Colourless to pale yellow
Odour	Characteristic, spicy, balsamic, with citrus zest top note
Odour Threshold	Not available
Melting Point	Not applicable
Freezing Point	Not available
Boiling Point	Not available
Flammability	Flammable liquid and vapour
Lower Explosion Limit	Not available
Upper Explosion Limit	Not available
Flash Point (Closed Cup)	53 °C

Auto-Ignition Temperature	Not available
Decomposition Temperature	Not available
pH	Not available
Kinematic Viscosity	Below 20.5 mm^2/s
Solubility	Not available
Partition Coefficient (Log Kow)	Not available
Vapour Pressure	Not available
Density	Not available
Specific Gravity (20°C)	0.8500–0.9100
Refractive Index (20°C)	1.4720–1.4900
Particle Characteristics	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Flammable liquid and vapour.

Chemical Stability: May form flammable or explosive vapour-air mixtures.

Hazardous Reactions: Not established.

Conditions to Avoid: Direct sunlight, extreme temperatures, overheating, heat, sparks, open flames and ignition sources.

Incompatible Materials: Strong acids and strong bases.

Hazardous Decomposition Products: Fumes, carbon monoxide, carbon dioxide and flammable gases.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: Not classified.

Acute Dermal Toxicity: Not classified.

Acute Inhalation Toxicity: Not classified.

LD50 Oral (Rat): 3370 mg/kg.

LD50 Dermal (Rabbit): 2500 mg/kg.

Skin Corrosion/Irritation: Causes skin irritation.

Serious Eye Damage/Irritation: Not classified.

Skin Sensitisation: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive Toxicity: Not classified.

STOT — Single Exposure: Not classified.

STOT — Repeated Exposure: Not classified.

Aspiration Hazard: May be fatal if swallowed and enters airways.

SECTION 12: ECOLOGICAL INFORMATION

Classification: Aquatic Chronic Category 2.

H411: Toxic to aquatic life with long-lasting effects.

Avoid release into the environment.

Ecotoxicological, persistence, degradability and bioaccumulation data for individual constituents are provided in the original supplier SDS.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents and containers in accordance with applicable local, regional, national and international regulations.

Use an authorised hazardous or special waste collection facility.

Handle empty containers carefully because residual vapours may be flammable.

Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION

Parameter	Classification
UN Number	UN 1197
Proper Shipping Name	EXTRACTS, LIQUID
Transport Hazard Class	3
Packing Group	III
Environmentally Hazardous	Yes
Marine Pollutant	Yes

ADR Tunnel Restriction Code	D/E
IMDG Emergency Schedule	F-E, S-D

Applicable Transport Regulations: ADR, IMDG, IATA, ADN and RID.

SECTION 15: REGULATORY INFORMATION

Applicable Regulations:

Regulation (EC) No. 1907/2006 (REACH).
Regulation (EU) 2020/878.
Regulation (EC) No. 1272/2008 (CLP).
REACH Annex XVII: Not listed.
REACH Annex XIV: Not listed.
REACH Candidate List (SVHC): Contains no listed substances.
PIC Regulation (EU 649/2012): Not listed.
POP Regulation (EU 2019/1021): Not listed.
Ozone Regulation (EU 2024/590): Not listed.
Explosives Precursors Regulation (EU 2019/1148): Contains no listed substances.
Drug Precursors Regulation (EC 273/2004): Contains toluene, CAS 108-88-3, Category 3, Annex I.

SECTION 16: OTHER INFORMATION

Original Issue Date: 29 January 2016.
Original Revision Date: 10 April 2025.
Superseded Version: 07 March 2025.
SDS Version: 10.0.

Revision Information: Section 3 — Composition/information on ingredients modified.

Hazard Statements:

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Authorised by:
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