Material Safety Data Sheet

In accordance with SANS 10234:2019 and GHS standard criteria

Eucalyptus Essential Oil

SECTION 1: Product and Company Information

1.1 Product Identifier

- **Product Name:** Eucalyptus Essential Oil
- **INCI Name:** *Eucalyptus globulus*
- **CAS Number:** 91771-68-5 / 8000-48-4
- **EINECS Number:** 283-406-2

1.2 Relevant Identified Uses of the Substance

- **Identified Uses:** Raw material for product formulation, aromatherapy, and natural perfumery.
- **Uses Advised Against:** Do not ingest.

1.3 Details of the Supplier of the Safety Data Sheet

- **Company Name:** Oryion Oils & Fragrants
- **Address:** Main Road, Queensburgh, Durban, South Africa, 4076
- **Contact Number:** 076 092 6052

1.4 Emergency Telephone Number

- **Emergency Hotline:** 076 092 6052 (Available during business hours)

SECTION 2: Hazards Identification

2.1 Classification of the Substance or Mixture

- Flammable liquids, Category 3 (H226)
- Skin Corrosion/Irritation, Category 2 (H315)
- Skin Sensitization, Category 1 (H317)
- Serious Eye Damage/Eye Irritation, Category 1 (H318)
- Specific Target Organ Toxicity - Single Exposure, Category 3 (H335)
- Hazardous to Aquatic Environment Long-Term/Chronic, Category 1 (H410)

2.2 GHS Label Elements

- **Signal Word: DANGER**

- **Hazard Statements:**

  - H226 – Flammable liquid and vapour.
  - H302 – Harmful if swallowed.
  - H315 – Causes skin irritation.
  - H317 – May cause an allergic skin reaction.
  - H318 – Causes serious eye damage.
  - H335 – May cause respiratory irritation.
  - H410 – Very toxic to aquatic life with long-lasting effects.

- **Precautionary Statements (Prevention):**

  - P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P233 – Keep container tightly closed.
  - P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.
  - P273 – Avoid release to the environment.
  - P280 – Wear protective gloves/clothing/eye protection/face protection.

- **Precautionary Statements (Response):**

  - P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P310 – Immediately call a POISON CENTER or doctor/physician.
  - P391 – Collect spillage.

SECTION 3: Composition/Information on Ingredients

3.1 Substances

- **Chemical Name:** 100% Eucalyptus Globulus Oil.
- **Natural Allergen Constituents:** Limonene (<10.00%), Pinenes (<3.00%), Linalool (<1.00%), Terpinolene (<1.00%), Citral (<0.5%), Geraniol (<0.5%), Alpha-terpinene (<0.5%), Beta-Caryophyllene (<0.5%), Geranyl acetate (<0.5%).

SECTION 4: First Aid Measures

- **Eye Contact:** Check for and remove contact lenses. Flush eyes with water for 15 minutes. If irritation or pain persists, seek immediate medical attention.
- **Skin Contact:** Wash immediately with plenty of soap and water. If irritation or a rash occurs, consult a doctor.
- **Inhalation:** Move affected individual to fresh air. Obtain medical advice if breathing difficulties or symptoms develop.
- **Ingestion:** Do NOT induce vomiting unless directed by medical personnel. If quantity is small, rinse mouth with water or milk. Seek immediate medical attention.

SECTION 5: Firefighting Measures

5.1 Flash Point: 44°C.

5.2 Extinguishing Media: Use dry sand, dry chemical, carbon dioxide (CO_2), or alcohol-resistant foam. Do not use direct, high-volume water jets.

5.3 Specific Hazards: Thermal decomposition can release toxic fumes including carbon monoxide (CO) and carbon dioxide (CO_2).

5.4 Protection for Firefighters: Wear full protective gear along with a self-contained breathing apparatus (SCBA).

SECTION 6: Accidental Release Measures

6.1 Personal Precautions: Eliminate all ignition sources. Avoid contact with skin and eyes, and do not breathe vapours.

6.2 Environmental Precautions: Contain leaks using non-combustible absorbents (sand, earth, vermiculite). Prevent oil from entering drains, surface water, or groundwater systems.

6.3 Clean-up Methods: Soak up spill residues using inert materials or detergent (avoid using solvents) and transfer into closed waste disposal drums.

SECTION 7: Handling and Storage

7.1 Safe Handling: Handle under a well-ventilated system. Wear appropriate protective clothing. Ground/bond all receiving containers to prevent static discharge. Do not eat, drink, or smoke in work zones.

7.2 Storage Conditions: Store inside tightly sealed glass or secure containers in a cool, well-ventilated space away from direct light, sparks, and open heat sources

SECTION 8: Exposure Controls/Personal Protection

8.1 Engineering Controls: Ensure adequate room ventilation or local exhaust installations. Electrical equipment must conform to national safety codes.

8.2 Individual Protection Measures:

- **Eye/Face:** Splash-resistant chemical safety goggles (EN166 compliant).
- **Hands:** Chemical resistant protective gloves made from Nitrile rubber or PVA.
- **Body:** Clean, regularly laundered industrial protective overalls.

SECTION 9: Physical and Chemical Properties

- **Physical State:** Liquid
- **Colour:** Colourless to Pale Yellow
- **Odour:** Characteristic (Cineol)
- **Specific Gravity @ 20°C:** 0.906 to 0.920
- **Refractive Index @ 20°C:** 1.458 - 1.465

SECTION 10: Stability and Reactivity

10.1 Reactivity: Stable under ordinary application environments.

10.2 Chemical Stability: Highly stable under recommended handling and storage conditions.

10.3 Incompatible Materials: Strong oxidizing agents, alkali metals, ammonia, peroxides, and strong inorganic acids.

10.4 Hazardous Decomposition: Carbon monoxide and carbon dioxide produced under thermal breakdown.

SECTION 11: Toxicological Information

Likely Routes of Exposure: Skin contact, eye contact, or inhalation.

Acute Symptoms: May cause serious eye irritation and corneal damage if not rinsed out immediately. Repeated dermal contact can cause allergic contact dermatitis and skin redness. Excessive vapour inhalation can create respiratory tract irritation or anesthetic effects.

SECTION 12: Ecological Information

Ecotoxicity: Highly toxic to marine environments and aquatic organisms. Prevent bulk leakage or untracked disposal into waterways.

Persistence & Degradability: High biodegradation potential is expected.

Bioaccumulation Potential: Logged potential is unlikely.

SECTION 13: Disposal Considerations

- **13.1 Waste Treatment:** Dispose of in accordance with regional, provincial, and national environmental waste laws. Waste chemical residues must be handled via authorized waste tracking companies. Do not discharge directly into the municipal drinking water supply, soil, or wastewater systems.

SECTION 14: Transport Information

UN/ID Number: UN 1197

Proper Shipping Name: EXTRACTS, LIQUID

Hazard Class: Class 3 (Flammable Liquid)

Packing Group: PG III

Customs Rate Code: 3301 29 49

SECTION 15: Regulatory Information

Inventory & Safety Regulations: Aligned to national standards and globally updated GHS parameters. Cross-referenced for allergen declarations under international criteria.

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SECTION 16: Other Information

Disclaimer: The information contained in this 16-point safety report is accurate and true to the best of our technical capability. All recommendations are provided without an explicit or implied processing guarantee. Users must execute their independent tests.

Revision Date: August 2026.