Material Safety Data Sheet

In accordance with SANS 10234:2019 and GHS standard criteria

Peppermint (Piperita) Essential Oil (Food Grade)

SECTION 1: Product and Company Information

1.1 Product Identifier

- **Product Name:** Peppermint (Piperita) Essential Oil (Food Grade)
- **Latin Name:** *Mentha piperita*
- **CAS Number:** 8006-90-4 / 84082-70-2
- **EINECS Number:** 282-015-4
- **Tariff Code:** 3301.25.10

1.2 Relevant Identified Uses of the Substance

- **Identified Uses:** Food-grade flavourant, raw material for product formulation, aromatherapy, and natural perfumery.
  Uses Advised Against: Do not ingest directly in raw concentrate form

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 4 (H227)
- Acute Toxicity, Oral, Category 4 (H302)
- Skin Corrosion/Irritation, Category 2 (H315)
- Skin Sensitisation, Category 1 (H317)
- Serious Eye Damage/Eye Irritation, Category 2A (H319)
- Specific Target Organ Toxicity – Single Exposure, Category 3 (H335)
- Hazardous to the Aquatic Environment, Chronic Hazard, Category 2 (H411)

2.2 GHS Label Elements

- **Signal Word: WARNING**
- **Hazard Pictograms:** Health Hazard/Irritant (GHS07), Environment (GHS09)
- **Hazard Statements:**
  - H227: Combustible liquid.
  - H302: Harmful if swallowed.
  - H315: Causes skin irritation.
  - H317: May cause an allergic skin reaction.
  - H319: Causes serious eye irritation.
  - H335: May cause respiratory irritation.
  - H411: Toxic to aquatic life with long-lasting effects.

- **Precautionary Statements (Prevention):**

  - P210: Keep away from flames and hot surfaces. No smoking.
  - P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
  - P264: Wash hands thoroughly after handling.
  - P270: Do not eat, drink, or smoke when using this product.
  - P273: Avoid release to the environment.
  - P280: Wear protective gloves/clothing/eye protection/face protection.

- **Precautionary Statements (Response):**

  - P301+P312+P330: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.
  - P302+P352: IF ON SKIN: Wash with plenty of soap and water.
  - P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
  - P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
  - P337+P313: If eye irritation persists: Get medical advice/attention.
  - P362+P364: Take off contaminated clothing and wash before reuse.
  - P391: Collect spillage.
  - P501: Dispose of contents/container in accordance with local/regional/national regulations.

SECTION 3: Composition/Information on Ingredients

- **3.1 Substances**
  - **Chemical Identity:** 100% Pure & Natural Peppermint Essential Oil.
  - **Chromatographic Component Profile (Batch No: 1468693):**

- Menthol: 39.3%
- Menthone: 22.7%
- Isomenthone: 10.5%
- Menthyl acetate: 5.7%
- Limonene: 3.4%
- Pulegone: 1.8%
- Isopulegol: 1.7%
- 1,8-Cineole: 0.1%
- Carvone: 0.0%

SECTION 4: First Aid Measures

- **4.1 Description of First Aid Measures**

  - **Inhalation:** Move individual away from exposure and into fresh air. Seek medical assistance if symptoms occur or persist.

  - **Skin Contact:** Remove contaminated clothing. Wash affected skin zones immediately with soap and lukewarm water. If skin irritation continues, consult a doctor.

  - **Eye Contact:** Check for and remove contact lenses. Flush eyes thoroughly with large volumes of lukewarm water for at least 15 minutes. Get medical attention if irritation persists.

- **Ingestion:** Not an expected route of exposure under normal conditions. Do NOT force vomiting unless directed by medical personnel. Keep the exposed person at rest. If large quantities are swallowed, seek immediate medical attention or contact a poison control center.

4.2 Most Important Symptoms and Effects: May cause eye irritation, hives, or skin

- sensitization/allergic dermatitis in susceptible individuals. High concentration inhalation may cause anesthetic effects.

4.3 Immediate Medical Attention: Treat symptomatically. Show this data sheet to medical personnel

SECTION 5: Firefighting Measures

- **5.1 Extinguishing Media**
  - **Suitable:** Dry chemical, chemical foam, extinguishing powder, carbon dioxide (CO_2), or sand.
  - **Unsuitable:** Do not use a high-pressure straight water jet as it spreads burning oil.
- **5.2 Specific Hazards Arising from the Chemical:** Vapours can expand or accumulate under thermal stress. Decomposition may liberate hazardous carbon oxides.
- **5.3 Protection for Firefighters:** Use a self-contained breathing apparatus (SCBA) and protective clothing. Cool storage containers with sprayed water mist.

SECTION 6: Accidental Release Measures

- **6.1 Personal Precautions:** Keep spills away from ignition sources. Avoid contact with skin or eyes. Ensure adequate workplace ventilation. Wear mandatory personal protective equipment (Section 8).
- **6.2 Environmental Precautions:** Do not empty concentrates into sewage lines or open water channels. Collect spills immediately.
- **6.3 Methods for Clean-up:** Extinguish all ignition sources. Absorb spillage with non-combustible material (sand, earth, vermiculite) and transfer to containers for disposal. Clean the affected surface with lukewarm water and detergent (do not use solvents).

SECTION 7: Handling and Storage

- **7.1 Safe Handling:** Prevent the formation of aerosols. Keep product away from direct ignition sources to prevent fires. Do not smoke, eat, or drink in active work areas. Wash hands thoroughly post-work.
- **7.2 Conditions for Safe Storage:** Keep container tightly sealed in its original packaging. Store inside a cool, dry, well-ventilated space (Storage Class 10) away from heat sources, sparks, open flames, and direct sunlight.

SECTION 8: Exposure Controls/Personal Protection

- **8.1 Control Parameters:** Contains no components with occupational exposure limits established by region-specific regulatory bodies.
- **8.2 Exposure Controls**
  - **Engineering Controls:** General room ventilation or localized extraction setups are recommended. Ground/bond equipment lines.
  - **Individual Protection Measures:**

- **Eye/Face Protection:** Wear liquid splash-proof safety goggles.
- **Hand Protection:** Wear chemical-resistant gloves (Nitrile rubber or PVA) for prolonged or repeated skin contact.
- **Body Protection:** Clean industrial protective garments or overalls, laundered regularly.

SECTION 9: Physical and Chemical Properties

- **Physical State:** Liquid
- **Colour:** Colourless, pale yellow, or pale greenish-yellow
- **Odour:** Characteristic peppermint aroma
- **Relative Density (d20/20):** 0.888 - 0.910 (Batch result: 0.9000)
- **Refractive Index (nD20):** 1.456 - 1.470 (Batch result: 1.4575)
- **Optical Rotation (a20):** -34° to -16° (Batch result: -18.4°)
- **Acid Value:** ≤ 1.0 mg KOH/g (Batch result: 0.5 mg KOH/g)
- **Solubility:** Very low solubility in water; highly soluble in organic solvents.

SECTION 10: Stability and Reactivity

- **10.1 Reactivity & Chemical Stability:** Stable under standard environmental conditions and recommended handling setups.
- **10.2 Hazardous Reactions:** None known under standard storage frameworks.
- **10.3 Conditions to Avoid:** Intense heat, flames, sparks, and source ignition profiles.
- **10.4 Incompatible Materials:** Strong oxidizing agents, strong inorganic acids, and peroxides.
- **10.5 Hazardous Decomposition:** Thermal breakdowns may form carbon monoxide (CO) and carbon dioxide (CO2).

SECTION 11: Toxicological Information

- **11.1 Toxicity Effects**
    - **Acute Oral Toxicity:** Harmful if swallowed (Category 4).
    - **Skin & Eye Contact:** Causes skin irritation and redness. Causes serious eye irritation. May cause allergic sensitization/dermatitis upon repeated dermal exposure.
    - **Inhalation:** Excess exposure to high vapour metrics can lead to mucous membrane, respiratory tract, or temporary central nervous system stress.

SECTION 12: Ecological Information

- **12.1 Ecotoxicity:** Toxic to aquatic life with long-lasting environmental hazards.
- **12.2 Degradability & Mobility:** Rapid biodegradation is expected over time. Low groundwater mobility profile expected.

  12.3 Bioaccumulation: Unlikely due to volatile structural properties.

SECTION 13: Disposal Considerations

- **13.1 Waste Treatment Methods:** Product concentrates must be treated as hazardous chemical waste. Dispose of contents, spill residues, and contaminated packaging via registered hazardous waste companies in accordance with provincial and national laws. Do not discharge into drinking water lines, sewage water systems, or soil.

SECTION 14: Transport Information

- **14.1 Land Transport (ADR/RID / SANS 10228):**
    - **UN Number:** UN 3082 | **Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | **Class:** 9 | **Packing Group:** PG III
- **14.2 Sea Transport (IMDG):**
    - **UN Number:** UN 3082 | **Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | **Class:** 9 | **Packing Group:** PG III | **Marine Pollutant:** Yes
- **14.3 Air Transport (IATA):**
    - **UN Number:** UN 3082 | **Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | **Class:** 9 | **Packing Group:** PG III

SECTION 15: Regulatory Information

15.1 Safety, Health, and Environmental Regulations: Regulated under the Hazardous Substances Act (Act 15 of 1973) in South Africa. Complies with international GHS criteria and SANS 10234 guidelines. FDA Grass Status: 182.20 for essential oils and natural extractiv

SECTION 16: Other Information

- **Disclaimer:** The information contained in this 16-point safety data sheet is accurate and true to the best of our technical knowledge. All data instructions and handling steps are formulated without an explicit or implied quality guarantee. Users must execute their independent process verification checks.
- **Revision Date:** August 2026.

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