



## SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 1907/2006 (REACH, as amended)

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### SECTION 1: Identification

| Parameter             | Details                                           |
|-----------------------|---------------------------------------------------|
| Product Name          | Peppermint Essential Oil                          |
| Alternative Names     | Peppermint Oil; Oil of Peppermint                 |
| Botanical Name        | <i>Mentha × piperita</i> L.                       |
| Botanical Family      | Lamiaceae                                         |
| INCI Name             | Mentha Piperita Oil                               |
| Plant Part            | Leaves and flowering aerial parts                 |
| Extraction Method     | Steam distillation                                |
| Product Type          | Natural Essential Oil / Natural Complex Substance |
| Primary CAS Number    | 8006-90-4                                         |
| EC Number             | 616-900-7                                         |
| Alternative EC Number | 282-015-4                                         |
| Physical Form         | Liquid                                            |
| Country of Origin     | Batch dependent                                   |

#### 1.2 Relevant Identified Uses

- Professional perfumery
- Fine-fragrance formulation
- Cosmetic fragrance applications
- Soap and detergent fragrance
- Home-fragrance products
- Aromatic preparations
- Research and product development

#### 1.3 Uses Advised Against

- Internal consumption
- Pharmaceutical use unless separately authorised
- Food or flavour use unless separately approved
- Direct undiluted application to skin
- Use by children
- Use without an appropriate finished-product safety assessment

#### 1.4 Supplier Details

Aromology Trading LLC  
G05 Al Ghazal Building



Nadd Al Hamar  
Dubai, United Arab Emirates

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Email: [info@aromology.com](mailto:info@aromology.com)

Telephone: +971 505197601

## 1.5 Emergency Telephone Number

Contact the nearest Poison Control Centre, emergency medical service or qualified medical professional.

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## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance

Representative classification under Regulation (EC) No. 1272/2008:

| Hazard Class          | Category   | Hazard Statement |
|-----------------------|------------|------------------|
| Flammable Liquid      | Category 3 | H226             |
| Acute Toxicity – Oral | Category 4 | H302             |
| Skin Irritation       | Category 2 | H315             |
| Skin Sensitisation    | Category 1 | H317             |
| Eye Irritation        | Category 2 | H319             |
| Aspiration Hazard     | Category 1 | H304             |
| Aquatic Chronic       | Category 2 | H411             |

The precise classification may vary according to the concentrations of menthol, menthone, limonene, pinene and other naturally occurring constituents.

### 2.2 Label Elements

#### Signal Word

Danger

#### Hazard Pictograms

- GHS02 – Flame
- GHS07 – Exclamation Mark
- GHS08 – Health Hazard
- GHS09 – Environment

#### Hazard Statements



- H226: Flammable liquid and vapour.
- H302: Harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- 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.
- P261: Avoid breathing vapours, mist or spray.
- P264: Wash thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P273: Avoid release to the environment.
- P280: Wear protective gloves, protective clothing and eye protection.
- P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor.
- P331: Do NOT induce vomiting.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P333+P313: If skin irritation or rash occurs: Get medical advice.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P337+P313: If eye irritation persists: Get medical advice.
- P370+P378: In case of fire: Use foam, dry powder or carbon dioxide to extinguish.
- P391: Collect spillage.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P405: Store locked up.
- P501: Dispose of contents and container in accordance with applicable regulations.

### 2.3 Other Hazards

- Vapours may form flammable mixtures with air.
- Oxidised essential oil may have increased skin-sensitising potential.
- High concentrations of vapour may cause headache, dizziness or respiratory discomfort.
- Spilled material may create a slipping hazard.
- The material is a Natural Complex Substance and may vary between production batches.
- No confirmed endocrine-disrupting properties have been established for the complete essential oil.

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## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Natural Complex Substance



| Component                | CAS Number | EC Number | Concentration |
|--------------------------|------------|-----------|---------------|
| Peppermint Essential Oil | 8006-90-4  | 616-900-7 | 100%          |

### 3.2 Representative Naturally Occurring Constituents

| Constituent                          | Representative Range |
|--------------------------------------|----------------------|
| Menthol                              | 30–50%               |
| Menthone                             | 10–30%               |
| Isomenthone                          | 2–10%                |
| Menthyl Acetate                      | 2–10%                |
| 1,8-Cineole                          | 2–8%                 |
| Limonene                             | 1–5%                 |
| Menthofuran                          | 1–8%                 |
| $\beta$ -Caryophyllene               | 1–4%                 |
| $\alpha$ -Pinene and $\beta$ -Pinene | Trace–3%             |
| Pulegone                             | Trace–4%             |
| Other Natural Constituents           | Balance              |

Exact composition must be confirmed through batch-specific GC/MS analysis.

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## SECTION 4: FIRST-AID MEASURES

### 4.1 Description of First-Aid Measures

#### After Inhalation

- Move the affected person to fresh air.
- Keep the person warm and at rest.
- Seek medical advice if coughing, dizziness, headache or breathing discomfort persists.

#### After Skin Contact

- Remove contaminated clothing and footwear.
- Wash the affected skin thoroughly with soap and plenty of water.
- Do not use solvents to clean the skin.
- Obtain medical advice if irritation, redness or rash develops.

#### After Eye Contact

- Rinse cautiously with clean water for at least 15 minutes.
- Remove contact lenses if present and easy to do.
- Continue rinsing while holding the eyelids open.
- Obtain medical attention if irritation persists.



### **After Ingestion**

- Immediately contact a Poison Centre or physician.
- Do not induce vomiting.
- Rinse the mouth carefully.
- Keep the affected person at rest.
- Never give anything by mouth to an unconscious person.

Aspiration into the lungs may cause chemical pneumonitis and may be fatal.

### **4.2 Most Important Symptoms and Effects**

Possible symptoms include:

- Skin irritation
- Allergic skin reaction
- Eye irritation
- Headache
- Dizziness
- Nausea
- Vomiting
- Abdominal discomfort
- Coughing
- Breathing difficulty
- Chemical pneumonitis following aspiration

### **4.3 Indication of Immediate Medical Attention**

Immediate medical attention is required following ingestion or suspected aspiration.

Treat symptomatically.

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## **SECTION 5: FIRE-FIGHTING MEASURES**

### **5.1 Suitable Extinguishing Media**

Use:

- Carbon dioxide
- Dry chemical powder
- Alcohol-resistant foam
- Water fog for cooling exposed containers

### **5.2 Unsuitable Extinguishing Media**



Do not use a direct high-pressure water jet because it may spread the burning liquid.

### 5.3 Specific Hazards

Vapours may travel to an ignition source and flash back.

Combustion or thermal decomposition may produce:

- Carbon monoxide
- Carbon dioxide
- Dense smoke
- Irritating organic vapours
- Unidentified decomposition products

### 5.4 Advice for Firefighters

- Wear self-contained breathing apparatus.
- Wear full protective clothing.
- Cool fire-exposed containers using water spray.
- Prevent contaminated fire-fighting water from entering drains or waterways.
- Approach the fire from upwind where practical.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions

- Remove all ignition sources.
- Ensure adequate ventilation.
- Keep unnecessary personnel away.
- Avoid breathing vapours or mist.
- Avoid contact with skin and eyes.
- Wear suitable gloves, protective clothing and eye protection.
- Use non-sparking tools where appropriate.
- Exercise caution because spilled oil may create slippery surfaces.

### 6.2 Environmental Precautions

- Prevent entry into drains, soil, groundwater and surface water.
- Contain significant spills.
- Notify the appropriate authority if an uncontrolled environmental release occurs.

### 6.3 Methods for Containment and Cleaning

- Stop the leak where safe to do so.
- Contain with sand, earth, vermiculite or another inert absorbent.



- Collect absorbed material in a sealed and labelled waste container.
  - Use non-sparking equipment.
  - Clean the affected surface with detergent and water.
  - Do not use combustible absorbents such as sawdust.
  - Dispose of waste through an authorised contractor.
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## **SECTION 7: HANDLING AND STORAGE**

### **7.1 Precautions for Safe Handling**

- Handle in a well-ventilated area.
- Avoid breathing vapours, mist and aerosols.
- Avoid prolonged or repeated skin contact.
- Prevent contact with eyes.
- Keep away from flames, sparks and hot surfaces.
- Use grounded equipment during bulk transfer where appropriate.
- Take precautions against static discharge.
- Do not eat, drink or smoke in handling areas.
- Wash hands thoroughly after use.
- Keep containers tightly closed when not in use.
- Use clean, dry and compatible dispensing equipment.
- Avoid release to the environment.
- Minimise exposure to air to reduce oxidation.

### **7.2 Conditions for Safe Storage**

Store:

- In tightly closed original or compatible containers
- In a cool, dry and well-ventilated area
- Protected from direct sunlight
- Away from heat and ignition sources
- Away from strong oxidising agents
- Preferably between 5°C and 20°C
- With minimum container headspace where practical

Suitable container materials may include:

- Aluminium
- Stainless steel
- Amber glass
- Fluorinated HDPE
- Suitably lined metal containers

### **7.3 Specific End Uses**



For professional perfumery and fragrance formulation.

Finished-product use levels must be established through an appropriate IFRA review and cosmetic safety assessment.

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## **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **8.1 Control Parameters**

No occupational exposure limit has been established for the complete Peppermint Essential Oil Natural Complex Substance.

Exposure to vapours, aerosols and direct contact should be minimised.

### **8.2 Engineering Controls**

- Provide adequate general ventilation.
- Use local exhaust ventilation for bulk transfer, heating or aerosol generation.
- Use explosion-resistant ventilation equipment where significant vapour concentrations may occur.
- Provide accessible eyewash and washing facilities.

### **8.3 Personal Protective Equipment**

#### **Eye and Face Protection**

Wear chemical safety goggles.

Use a face shield where splash exposure is possible.

#### **Hand Protection**

Wear chemical-resistant gloves, such as:

- Nitrile rubber
- Neoprene
- Butyl rubber

#### **Skin and Body Protection**

Wear suitable protective clothing to prevent repeated or prolonged contact.

#### **Respiratory Protection**

Normally not required under adequate ventilation.



Use an approved organic-vapour respirator where:

- Ventilation is inadequate
- The material is heated
- Mist or aerosol is generated
- Significant vapour exposure may occur

### Hygiene Measures

- Wash hands and exposed skin after handling.
- Remove contaminated clothing.
- Wash contaminated workwear before reuse.
- Keep away from food, beverages and animal feed.

### Environmental Exposure Controls

Prevent uncontrolled release into drains, soil and waterways.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| Property                  | Representative Information                                                  |
|---------------------------|-----------------------------------------------------------------------------|
| Physical State            | Liquid                                                                      |
| Appearance                | Clear mobile liquid                                                         |
| Colour                    | Colourless to pale yellow or yellow-green                                   |
| Odour                     | Strong, fresh, cooling, minty and mentholic                                 |
| Odour Threshold           | Not determined                                                              |
| Melting / Freezing Point  | Batch dependent; may become cloudy or partially solidify at low temperature |
| Initial Boiling Range     | Approximately 200–230 °C                                                    |
| Flammability              | Flammable liquid and vapour                                                 |
| Lower Explosive Limit     | Not determined                                                              |
| Upper Explosive Limit     | Not determined                                                              |
| Flash Point               | Approximately 65–80 °C                                                      |
| Auto-Ignition Temperature | Not determined                                                              |
| Decomposition Temperature | Not determined                                                              |
| pH                        | Not applicable                                                              |
| Kinematic Viscosity       | Not determined                                                              |
| Water Solubility          | Insoluble or practically insoluble                                          |
| Solubility in Ethanol     | Soluble                                                                     |
| Vapour Pressure           | Low at ambient temperature                                                  |
| Relative Density at 20 °C | Approximately 0.895–0.925                                                   |



|                          |                                            |
|--------------------------|--------------------------------------------|
| Refractive Index at 20°C | Approximately 1.455–1.470                  |
| Optical Rotation         | Approximately –30° to –10°                 |
| Partition Coefficient    | Expected to be high due to terpene content |
| Particle Characteristics | Not applicable                             |

All values are representative. Batch-specific Certificate of Analysis results take precedence.

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## **SECTION 10: STABILITY AND REACTIVITY**

### **10.1 Reactivity**

No dangerous reactivity is expected under normal handling conditions.

### **10.2 Chemical Stability**

Stable when stored tightly closed and protected from heat, light, moisture and air.

### **10.3 Possibility of Hazardous Reactions**

Hazardous polymerisation is not expected.

May react strongly with oxidising agents.

### **10.4 Conditions to Avoid**

Avoid:

- Heat
- Direct sunlight
- Flames and sparks
- Static discharge
- Prolonged exposure to air
- Moisture contamination
- Repeated heating
- Cross-contamination

### **10.5 Incompatible Materials**

- Strong oxidising agents
- Strong acids
- Strong alkalis
- Reactive halogen compounds

### **10.6 Hazardous Decomposition Products**



Thermal decomposition may produce:

- Carbon monoxide
  - Carbon dioxide
  - Dense smoke
  - Irritating organic vapours
- 

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **11.1 Information on Hazard Classes**

#### **Acute Toxicity**

Harmful if swallowed under the representative classification.

#### **Skin Corrosion / Irritation**

Causes skin irritation.

#### **Serious Eye Damage / Irritation**

Causes serious eye irritation.

#### **Respiratory or Skin Sensitisation**

May cause an allergic skin reaction.

Oxidation products of limonene, pinene and other natural terpenes may increase sensitisation potential.

#### **Germ-Cell Mutagenicity**

No classification established for the complete Natural Complex Substance.

#### **Carcinogenicity**

No classification established for the complete substance.

#### **Reproductive Toxicity**

No classification established for the complete substance.

#### **Specific Target Organ Toxicity – Single Exposure**

Excessive vapour exposure may cause headache, dizziness or respiratory discomfort.



### **Specific Target Organ Toxicity – Repeated Exposure**

No classification established based on available representative information.

### **Aspiration Hazard**

May be fatal if swallowed and enters airways.

#### **11.2 Likely Routes of Exposure**

- Skin contact
- Eye contact
- Inhalation
- Accidental ingestion

#### **11.3 Symptoms Related to Exposure**

- Skin irritation
- Allergic rash
- Eye irritation
- Headache
- Dizziness
- Nausea
- Coughing
- Breathing difficulty following aspiration
- Chemical pneumonitis

#### **11.4 Endocrine-Disrupting Properties**

No endocrine-disrupting properties have been established for the complete product.

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## **SECTION 12: ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

Toxic to aquatic life with long-lasting effects.

### **12.2 Persistence and Degradability**

Complete batch-specific biodegradation data are not available.

Individual natural constituents may biodegrade at different rates.

### **12.3 Bioaccumulative Potential**



Lipophilic terpene constituents may have the potential to bioaccumulate.

#### **12.4 Mobility in Soil**

The product is poorly soluble in water and is expected to adsorb to soil and sediment.

#### **12.5 PBT and vPvB Assessment**

The complete Natural Complex Substance is not expected to meet PBT or vPvB criteria based on representative information.

#### **12.6 Endocrine-Disrupting Properties**

No confirmed endocrine-disrupting properties have been identified.

#### **12.7 Other Adverse Effects**

Avoid uncontrolled release into the environment.

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### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### **13.1 Waste Treatment Methods**

- Dispose of unused product through an authorised chemical-waste contractor.
- Do not discharge into drains, waterways or soil.
- Incineration may be appropriate where legally permitted.
- Dispose of contaminated absorbents as hazardous chemical waste.
- Empty containers may retain flammable vapours and hazardous residues.

#### **13.2 Contaminated Packaging**

Dispose of or recycle packaging in accordance with local regulations after appropriate cleaning.

Do not cut, weld, drill or burn uncleaned containers.

Do not reuse contaminated containers for food, beverages or household purposes.

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### **SECTION 14: TRANSPORT INFORMATION**

| <b>Transport Parameter</b> | <b>Details</b>                                      |
|----------------------------|-----------------------------------------------------|
| UN Number                  | UN 3082                                             |
| UN Proper Shipping Name    | Environmentally Hazardous Substance, Liquid, N.O.S. |
| Technical Name             | Peppermint Essential Oil                            |



|                        |                                            |
|------------------------|--------------------------------------------|
| Transport Hazard Class | 9                                          |
| Packing Group          | III                                        |
| Environmental Hazard   | Yes                                        |
| Marine Pollutant       | Yes                                        |
| ADR / RID              | Class 9, UN 3082                           |
| IMDG                   | Class 9, UN 3082                           |
| IATA                   | Class 9, UN 3082                           |
| EmS Code               | F-A, S-F                                   |
| Limited Quantity       | Subject to applicable transport provisions |
| Bulk Transport         | Not intended for bulk maritime transport   |

Where a batch has a flash point within the applicable flammable-liquid transport criteria, transport classification may need to reflect that measured result. The original manufacturer's current SDS and batch-specific flash-point data must be reviewed before shipping.

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## **SECTION 15: REGULATORY INFORMATION**

### **15.1 Safety, Health and Environmental Regulations**

Prepared with reference to:

- Regulation (EC) No. 1907/2006 – REACH
- Regulation (EU) 2020/878
- Regulation (EC) No. 1272/2008 – CLP
- Regulation (EC) No. 1223/2009 on cosmetic products
- Regulation (EU) 2023/1545 concerning fragrance-allergen labelling
- Current IFRA Standards
- ADR
- RID
- IMDG
- IATA dangerous-goods provisions

### **15.2 Chemical Safety Assessment**

A formal chemical safety assessment has not been carried out by Aromology Trading LLC for the complete Natural Complex Substance.

Finished-product manufacturers are responsible for:

- Reviewing the original manufacturer's current SDS
- Confirming batch-specific GC/MS composition
- Confirming the measured flash point
- Confirming transport classification
- Calculating applicable IFRA restrictions



- Assessing fragrance-allergen labelling
  - Determining safe finished-product use levels
  - Conducting the finished cosmetic-product safety assessment
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## SECTION 16: OTHER INFORMATION

### 16.1 Full Text of Hazard Statements

- H226: Flammable liquid and vapour.
- H302: Harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H411: Toxic to aquatic life with long-lasting effects.

### 16.2 Abbreviations

#### Abbreviation Meaning

|       |                                                                                     |
|-------|-------------------------------------------------------------------------------------|
| ADR   | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CAS   | Chemical Abstracts Service                                                          |
| CLP   | Classification, Labelling and Packaging Regulation                                  |
| EC    | European Community                                                                  |
| GC/MS | Gas Chromatography–Mass Spectrometry                                                |
| IATA  | International Air Transport Association                                             |
| IFRA  | International Fragrance Association                                                 |
| IMDG  | International Maritime Dangerous Goods Code                                         |
| INCI  | International Nomenclature of Cosmetic Ingredients                                  |
| NCS   | Natural Complex Substance                                                           |
| PBT   | Persistent, Bioaccumulative and Toxic                                               |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals                |
| RID   | Regulations concerning the International Carriage of Dangerous Goods by Rail        |
| vPvB  | Very Persistent and Very Bioaccumulative                                            |

### 16.3 Recommended Shelf Life

24 months from the manufacturing date when stored unopened under recommended conditions.

### 16.4 Issue Date

Version 1.0

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## DISCLAIMER

This Material Safety Data Sheet has been prepared using representative botanical, compositional and safety information for Peppermint Essential Oil.

Peppermint Essential Oil is a Natural Complex Substance. Its exact composition, physical properties, flash point and hazard classification may vary according to:

- Botanical variety
- Country of cultivation
- Harvest conditions
- Distillation method
- Storage conditions
- Oxidation
- Individual production batch

The original manufacturer's current:

- Safety Data Sheet
- Certificate of Analysis
- GC/MS report
- Flash-point result
- IFRA statement
- Allergen declaration
- Transport classification

shall take precedence wherever available.

This product is supplied exclusively as a professional perfumery raw material. It is not intended for internal consumption, medicinal use, food use or direct undiluted skin application.

Aromology Trading LLC accepts no responsibility for inappropriate handling, storage, formulation, transport, labelling or use outside the recommended professional applications.

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## AUTHORISED BY

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