ALTRAFLORA NATURAL EXTRACTS

# SAFETY DATA SHEET

Revision Date: 18.10.2026 | Version: 1.3

## 1. Identification of the Substance/Mixture and of the Company

### 1.1 Product Identifier

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|---|---|
| **Product Name:** | Bitter Orange Food Fragrance Oil |
| **Item Code:** | AF-CTAR1FRG |
| **CAS No.:** | Not applicable (mixture) |
| **EC No.:** | Not applicable (mixture) |
| **INCI Name:** | Citrus Aurantium Amara (Bitter Orange) Peel Oil, Caprylic/Capric Triglyceride |

### 1.2 Relevant Identified Uses

Identified Uses: Fragrance and flavouring ingredient for food, beverage, confectionery, cosmetic, household and candle applications. For professional and consumer formulation use.

Uses Advised Against: Not for undiluted application to skin or mucous membranes. Not for injection, for nebuliser inhalation, or for administration to infants and young children. Keep out of reach of children.

### 1.3 Supplier Details

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|---|---|
| **Company:** | ALTRAFLORA DOĞAL BİTKİ ÜRÜNLERİ SANAYİ VE TİCARET ANONİM ŞİRKETİ |
| **Address:** | Zafer Mah. 1033/2 Sk. No: 16/A, Merkezefendi / Denizli, 20020, Türkiye |
| **Phone:** | +90 538 051 7405 |
| **Email:** | info@altraflora.com |

1.4 Emergency Contact: +90 538 051 7405 (24h)

## 2. Hazards Identification

### 2.1 Classification

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

- Flam. Liq. 3 — H226: Flammable liquid and vapour.
- Asp. Tox. 1 — H304: May be fatal if swallowed and enters airways.
- Skin Irrit. 2 — H315: Causes skin irritation.
- Skin Sens. 1 — H317: May cause an allergic skin reaction.
- Aquatic Chronic 1 — H410: Very toxic to aquatic life with long lasting effects.

### 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. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects. Precautionary statements: P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 Avoid release to the environment. P280 Wear protective gloves/eye protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER 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/attention. P405 Store locked up. P501 Dispose of contents/container in accordance with local/national regulations. Contains: limonene.

### 2.3 Other Hazards

PBT/vPvB Assessment: Does not meet criteria for PBT or vPvB under REACH.

## 3. Composition/Information on Ingredients

### 3.1 Substance/Mixture

**Botanical Name:** Citrus aurantium L.

**Plant Part:** Fruit peel

**Extraction Method:** Cold expression of fresh fruit peel, blended with MCT carrier

**Origin:** Declared per lot

**Key Active Compounds:**

| Compound | Content |
|---|---|
| Limonene (d-limonene; CAS 138-86-3, EC 205-341-0; Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400, Aquatic Chronic 1 H410) | Present |
| Linalool (CAS 78-70-6, EC 201-134-4; Skin Irrit. 2 H315, Skin Sens. 1B H317, Eye Irrit. 2 H319) | Present |
| β-Myrcene (CAS 123-35-3, EC 204-622-5; Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Eye Irrit. 2 H319) | Present |
| α-Pinene (CAS 80-56-8, EC 201-291-9; Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400, Aquatic Chronic 1 H410) | Present |
| Caprylic/capric triglyceride (MCT) — carrier | Present |

## 4. First Aid Measures

**General Advice** If medical advice is needed, have the product container or label at hand. Move the person out of the exposure area and take off contaminated clothing.

**Inhalation** Move to fresh air. Seek medical attention if symptoms persist.

**Skin Contact** Take off contaminated clothing and wash it before reuse. Wash skin with plenty of soap and water. If skin irritation or rash occurs, get medical advice.

**Eye Contact** Rinse with water for several minutes. Seek medical attention if irritation persists.

**Ingestion** Do NOT induce vomiting: vomit may enter the airways (aspiration hazard). Immediately call a POISON CENTER or doctor. If the person is conscious, rinse mouth with water. Never give anything by mouth to an unconscious person.

**Most Important Symptoms** Aspiration into the lungs may cause chemical pneumonitis; skin redness and irritation; allergic skin reaction (itching, rash).

**Notes to Physician** Treat symptomatically. If aspiration is suspected, monitor for respiratory symptoms; do not induce vomiting.

## 5. Firefighting Measures

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| **Suitable Extinguishing Media** | Foam, carbon dioxide ($CO_2$), dry chemical powder, water spray. |
| **Unsuitable Extinguishing Media** | Water jet (may spread fire). |
| **Special Hazards** | Flammable liquid and vapour; vapours may form explosive mixtures with air. Flash point: 46 °C (closed cup, typical for the aromatic fraction). Combustion produces carbon oxides. Cool containers exposed to fire with water spray. |

## 6. Accidental Release Measures

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| **Personal Precautions** | Remove all sources of ignition and ensure adequate ventilation. Avoid contact with skin and eyes. Use protective equipment. Caution: spilled product may create slippery surfaces. |
| **Environmental Precautions** | Prevent entry into drains, waterways, and soil. Expected to be biodegradable. |
| **Containment and Cleanup** | Absorb with inert absorbent material, sand, or earth. Dispose according to local regulations. |

## 7. Handling and Storage

### 7.1 Precautions for Safe Handling

Avoid contact with skin and eyes. Wash hands thoroughly after handling. Keep away from heat, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Avoid spills. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment; prevent entry into drains, waterways and soil.

### 7.2 Conditions for Safe Storage

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|---|---|
| **Storage Temperature** | Store at 15–25 °C in a tightly closed container in a well-ventilated place, locked up and out of reach of children. Protect from heat and sunlight. |
| **Packaging Materials** | Dark glass, stainless steel, food-grade HDPE. |
| **Shelf Life** | 24 months when stored properly |

## 8. Exposure Controls/Personal Protection

8.1 Control Parameters: No occupational exposure limits established.

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| **Engineering Controls** | Ensure adequate ventilation. Keep away from ignition sources; use explosion-proof electrical and ventilating equipment where vapours may accumulate. |
| **Eye/Face Protection** | Wear safety glasses with side shields (EN 166). |
| **Hand Protection** | Wear protective gloves (e.g. nitrile rubber, EN ISO 374-1). |
| **Environmental Exposure Controls** | Avoid release to the environment. Do not discharge the product, rinse water or cleaning water into drains, surface water or soil; collect spills and wastes for disposal (see Sections 6 and 13). Comply with the applicable environmental protection legislation. |

## 9. Physical and Chemical Properties

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|---|---|
| **Appearance** | Clear, colourless to pale yellow-orange mobile liquid |
| **Odor** | Fresh, dry citrus with a bitter-green edge |
| **pH** | Not applicable |
| **Flash Point** | 46 °C (closed cup, typical for the aromatic fraction) |
| **Density** | 0.85–0.95 g/cm³ at 20 °C (typical) |
| **Solubility (Water)** | Insoluble in water; miscible with fixed oils, soluble in ethanol |
| **Viscosity** | Low-viscosity mobile liquid |
| **Solvent Residues** | None. No solvent is used in manufacture. |

## 10. Stability and Reactivity

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|---|---|
| **Chemical Stability** | Stable under recommended storage conditions. May oxidize upon exposure to air and light. |
| **Conditions to Avoid** | High temperatures, prolonged exposure to air and light, ignition sources. |
| **Incompatible Materials** | Strong oxidizers, concentrated acids, strong bases. |

## 11. Toxicological Information

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| **Acute Oral Toxicity** | Not classified for acute oral toxicity. Aspiration hazard (Asp. Tox. 1, H304): may be fatal if swallowed and enters airways. |
| **Skin Irritation** | Causes skin irritation (Skin Irrit. 2, H315). |
| **Eye Irritation** | May cause mild temporary irritation upon direct contact. |
| **Sensitization** | May cause an allergic skin reaction (Skin Sens. 1, H317). |
| **Carcinogenicity** | Not classified for carcinogenicity. Contains β-myrcene (IARC Group 2B). |

## 12. Ecological Information

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|---|---|
| **Toxicity** | Very toxic to aquatic life with long lasting effects (H410). |
| **Biodegradability** | Expected to be readily biodegradable. |
| **Bioaccumulation** | No significant bioaccumulation expected. |

## 13. Disposal Considerations

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| **Product Disposal** | Dispose according to local regulations. Do not pour into drains. |
| **Waste Code (EU)** | EWC 16 03 05* — organic wastes containing hazardous substances |

## 14. Transport Information

Classified as dangerous goods for transport (ADR/RID/IMDG/IATA).

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| **UN Number** | UN 1169 |
| **Proper Shipping Name** | Extracts, aromatic, liquid |
| **Transport Hazard Class** | 3 |
| **Packing Group** | III |
| **Environmental Hazards** | Environmentally hazardous: Yes (ADR/RID/IATA); Marine pollutant: Yes (IMDG) |

## 15. Regulatory Information

EU Legislation: REACH – Compliant | CLP – Classified; see Section 2 | Cosmetics Regulation (EC) No 1223/2009 – Compliant where applicable

Directive 2012/18/EU (Seveso III), Annex I, Part 1: P5c Flammable liquids: Categories 2 or 3 not covered by P5a and P5b (qualifying quantities: lower tier 5 000 t, upper tier 50 000 t); E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1 (qualifying quantities: lower tier 100 t, upper tier 200 t).

US Legislation: FDA – Compliant for intended use | TSCA – Listed where applicable

Contains fragrance allergens listed in Annex III to Regulation (EC) No 1223/2009. Declare on cosmetic labels above 0.001 % in leave-on and 0.01 % in rinse-off products. Expressed citrus peel oils contain photosensitising furocoumarins; observe the dermal limits applicable to leave-on skin products.

## 16. Other Information

**Product Specifications**

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|---|---|
| **Botanical Source** | Citrus aurantium L. |
| **Plant Part Used** | Fruit peel |
| **Extraction Method** | Cold expression of fresh fruit peel, blended with MCT carrier |
| **Country of Origin** | Declared per lot |
| **Shelf Life** | 24 months |
| **Storage** | Store at 15–25 °C, protect from light |

Revision Information: Revision Date: 18.10.2026 | Version: 1.3 | Changes from the previous version: Sections 2, 3, 7, 8, 11 and 15.

Literature References: IFRA Standards, 51st Amendment; ECHA C&L Inventory; SCCS opinion on citrus oil phototoxicity.

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of publication. It is intended as guidance for safe handling, use, storage, transport, and disposal and should not be considered a warranty or quality specification.

End of Safety Data Sheet