

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

1.1 Product Identifier

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

Company:	AltraFlora Natural Botanicals Inc.
Address:	Zafer Mah., 1033 sokak, No: 16/A, Merkezefendi / Denizli, TURKEY
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. 1B — 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: Warning. See hazard statements in Section 2.1.

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

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Extraction Method: Cold expression of fresh fruit peel, blended with MCT carrier
Origin: Declared per lot

Key Active Compounds:

Compound	Content
Limonene (d-limonene)	Present
Linalool	Present
β -Myrcene	Present
α -Pinene	Present
Caprylic/capric triglyceride (MCT) — carrier	Present

4. First Aid Measures

General Advice No special first aid measures usually required. Seek medical attention if symptoms persist.
Inhalation Move to fresh air. Seek medical attention if symptoms persist.
Skin Contact Wash with soap and water. Seek medical attention if irritation develops.
Eye Contact Rinse with water for several minutes. Seek medical attention if irritation persists.
Ingestion Rinse mouth with water. Non-toxic in normal quantities. Seek medical attention if symptoms occur.

5. Firefighting Measures

Suitable Extinguishing Media Foam, carbon dioxide (CO₂), dry chemical powder, water spray.
Unsuitable Extinguishing Media Water jet (may spread fire).
Special Hazards Flash point: 46 °C (closed cup, typical for the aromatic fraction). Combustion produces carbon oxides.

6. Accidental Release Measures

Personal Precautions 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

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Avoid prolonged skin contact. Wash hands after handling. Keep away from heat and ignition sources. Avoid spills.

7.2 Conditions for Safe Storage

Storage Temperature	Store at 15–25 °C. 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.

Engineering Controls	Ensure adequate ventilation. No special measures required for normal handling.
Eye/Face Protection	Safety glasses recommended in production settings.
Hand Protection	Chemical-resistant gloves for prolonged contact.

9. Physical and Chemical Properties

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)
Relative Density	0.85–0.95 g/cm ³ 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

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

Acute Oral Toxicity	Not classified. Generally non-toxic when ingested in normal quantities.
Skin Irritation	Not classified for skin irritation under normal use.
Eye Irritation	May cause mild temporary irritation upon direct contact.
Sensitization	Not classified. Generally non-sensitizing.

Carcinogenicity

Not classified. Not listed by IARC, NTP, or OSHA.

12. Ecological Information**Toxicity**

Not classified as hazardous to aquatic environment.

Biodegradability

Expected to be readily biodegradable.

Bioaccumulation

No significant bioaccumulation expected.

13. Disposal Considerations**Product Disposal**

Dispose according to local regulations. Do not pour into drains.

Waste Code (EU)

EWC 16 03 05* — organic wastes containing dangerous substances

14. Transport Information

Classified as dangerous goods for transport (ADR/RID/IMDG/IATA). Consignments in 10 mL retail packaging normally qualify for the limited-quantity provisions.

UN Number

UN 1169

Proper Shipping Name

Extracts, aromatic, liquid

Transport Hazard Class

3

Packing Group

III

Environmental Hazards

Marine pollutant: Yes

15. Regulatory Information

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

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**

Botanical Source	Citrus aurantium L.
Plant Part Used	Fruit peel
Extraction Method	Cold expression of fresh fruit peel, blended with MCT carrier

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Country of Origin	Declared per lot
Shelf Life	24 months
Storage	Store at 15–25 °C, protect from light

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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