SAFETY DATA SHEET

Revision Date: 10.11.2026 | Version: 1.0

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

1.1 Product Identifier

Product Name:	Bitter Orange Food Fragrance, water-dispersible
Item Code:	AF-CTAR1EML
CAS No.:	Not applicable (mixture)
EC No.:	Not applicable (mixture)
INCI Name:	Citrus Aurantium Amara (Bitter Orange) Peel Oil, Lecithin, Aqua

1.2 Relevant Identified Uses

Identified Uses: Fragrance and flavouring ingredient for aqueous food, beverage, confectionery, cosmetic and household 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 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):

• Skin Irrit. 2 — H315: Causes skin irritation.

• Skin Sens. 1 — H317: May cause an allergic skin reaction.

• Aquatic Chronic 2 — H411: Toxic to aquatic life with long lasting effects.

2.2 Label Elements

Signal Word: Warning. Hazard pictograms: GHS07 (Exclamation mark), GHS09 (Environment). Hazard statements: H315 Causes skin irritation. H317 May cause an allergic skin reaction. H411 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. P273 Avoid release to the environment. P280 Wear protective gloves. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P501 Dispose of contents/container in accordance with local/national regulations. Contains: limonene, linalool.

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, emulsified in a lecithin/water base
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
Lecithin (E322(i)) and water — emulsion base	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	Rinse mouth with water. Do not give anything by mouth to an unconscious person. If the person feels unwell, get medical advice.
Most Important Symptoms	Skin redness and irritation; allergic skin reaction (itching, rash).
Notes to Physician	Treat symptomatically.

5. Firefighting Measures

Suitable Extinguishing Media	Foam, carbon dioxide (CO_2), dry chemical powder, water spray.
Unsuitable Extinguishing Media	Water jet (may spread fire).
Special Hazards	Flash point: Not applicable — aqueous emulsion, does not sustain combustion. 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	Toxic to aquatic life with long lasting effects. Prevent entry into drains, waterways and soil. Inform the relevant authorities if the product enters surface water or sewers.
Containment and Cleanup	Collect spillage. Absorb with inert absorbent material, sand or earth and place in closed, labelled containers. Dispose of as hazardous waste (see Section 13).

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 and ignition sources. 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

Storage Temperature	Store at 2–8 °C. Protect from heat and sunlight.
Packaging Materials	Dark glass, stainless steel, food-grade HDPE.
Shelf Life	12 months when stored properly

8. Exposure Controls/Personal Protection

8.1 Control Parameters: No occupational exposure limits established.

Engineering Controls	Ensure adequate ventilation.
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

Appearance	Milky-white to pale-yellow oil-in-water emulsion
Odor	Fresh, dry citrus with a bitter-green edge
pH	Not determined
Flash Point	Not applicable — aqueous emulsion, does not sustain combustion
Density	0.98–1.05 g/cm³ at 20 °C (typical)
Solubility (Water)	Dispersible in water (oil-in-water emulsion); miscible with ethanol
Viscosity	Pourable emulsion; shake before use
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 for acute oral toxicity.
Skin Irritation	Causes skin irritation (Skin Irrit. 2, H315).
Eye Irritation	Not classified for serious eye damage/eye irritation.
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

Toxicity	Toxic to aquatic life with long lasting effects (H411).
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 hazardous substances

14. Transport Information

Classified as an environmentally hazardous substance for transport (ADR/RID/IMDG/IATA). Single or inner packagings containing a net quantity of 5 L or less are not subject to these regulations (ADR/RID special provision 375, IMDG Code 2.10.2.7, IATA special provision A197).

UN Number	UN 3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (limonene)
Transport Hazard Class	9
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: E2 Hazardous to the Aquatic Environment in Category Chronic 2 (qualifying quantities: lower tier 200 t, upper tier 500 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

Botanical Source	Citrus aurantium L.
Plant Part Used	Fruit peel
Extraction Method	Cold expression of fresh fruit peel, emulsified in a lecithin/water base
Country of Origin	Declared per lot
Shelf Life	12 months
Storage	Store at 2–8 °C, protect from light

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Literature References: Batch TDS AF-CTAR1EML (20261109-CTAR1EML); 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