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

Product Name:	Black Pepper Extract, water-dispersible (2 % piperine)
Item Code:	AF-PRNG1EML
CAS No.:	Not applicable (mixture)
EC No.:	Not applicable (mixture)
INCI Name:	Piper Nigrum (Pepper) Fruit Extract, Lecithin, Aqua

1.2 Relevant Identified Uses

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

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

• Aquatic Chronic 3 — H412: Harmful to aquatic life with long lasting effects.

2.2 Label Elements

Signal Word: Warning. Hazard pictogram: GHS07 (Exclamation mark). Hazard statements: H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects. Precautionary statements: P273 Avoid release to the environment. P280 Wear protective gloves/eye protection. 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: β-caryophyllene.

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: Piper nigrum L.

Plant Part: Fruit (dried)

Extraction Method: Supercritical CO_2 extraction of dried fruit, emulsified in a lecithin/water base

Origin: Türkiye

Key Active Compounds:

Compound	Content
Piperine (CAS 94-62-2, EC 202-348-0; Acute Tox. 3 H301)	> 2 %
(E)-Caryophyllene (β-caryophyllene; CAS 87-44-5, EC 201-746-1; Asp. Tox. 1 H304, Skin Sens. 1 H317)	> 2 %
δ-3-Carene (CAS 13466-78-9, EC 236-719-3; Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 3 H412)	> 0.2 %
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)	> 0.2 %
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 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	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 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	Orange-yellow oil-in-water emulsion
Odor	Characteristic black pepper
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 (CO_2 extraction)

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	Not classified for skin irritation under normal use.
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.

12. Ecological Information

Toxicity	Harmful to aquatic life with long lasting effects (H412).
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

Not classified as dangerous goods for transport (ADR/RID/IMDG/IATA).

UN Number	Not regulated
Transport Hazard Class	Not regulated
Environmental Hazards	Environmentally hazardous: No (ADR/RID/IATA); Marine pollutant: No (IMDG)

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 limonene, a fragrance allergen 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.

16. Other Information

Product Specifications

Botanical Source	Piper nigrum L.
Plant Part Used	Fruit (dried)
Extraction Method	Supercritical CO_2 extraction of dried fruit, emulsified in a lecithin/water base
Country of Origin	Türkiye
Shelf Life	12 months
Storage	Store at 2–8 °C, protect from light

Revision Information: Revision Date: 18.10.2026 | Version: 1.3 | Changes from the previous version: Sections 2, 3, 4, 7, 8, 11 and 12.

Literature References: Batch TDS AF-PRNG1EML (20260403-PRNG1EML); ECHA C&L Inventory.

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