

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 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):

- Skin Irrit. 2 — H315: Causes skin irritation.
- Eye Irrit. 2 — H319: Causes serious eye irritation.

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:	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	2.0 %
(E)-Caryophyllene	2.4 %
δ-3-Carene	0.5 %
Limonene	0.4 %
Lecithin (E322(i)) and water — emulsion base	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 (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 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 2–8 °C. Protect from heat and sunlight.
----------------------------	--

Revision Date: 07.09.2026 | Version: 1.0

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. 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	Orange-yellow oil-in-water emulsion
Odor	Characteristic black pepper
pH	Not applicable
Flash Point	Not applicable — aqueous emulsion, does not sustain combustion
Relative Density	0.98–1.05 g/cm ³ 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. 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

This product is not classified as dangerous goods for transport.

UN Number	Not regulated
Transport Hazard Class	Not regulated
Environmental Hazards	Marine pollutant: No

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. Contains limonene, a fragrance allergen listed in Annex III to Regulation (EC) No 1223/2009.

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 Date: 07.09.2026 | Version: 1.0

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