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:	Pomegranate Seed CO_2 Extract (> 50 % punicic acid)
Item Code:	AF-PUGR1TSF
CAS No.:	84961-57-9
EC No.:	284-646-0
INCI Name:	Punica Granatum Seed Extract

1.2 Relevant Identified Uses

Identified Uses: Ingredient for cosmetic skin-care and hair-care formulations; raw material for food supplements and food applications. For industrial and professional formulation use only.

Uses Advised Against: Not for direct consumption. Use only as an ingredient of formulated products.

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

GHS Classification: Not classified as hazardous. This product does not meet criteria for GHS/CLP classification.

2.2 Label Elements

Signal Word: Not required | Hazard Pictograms: Not required | Hazard Statements: Not required

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:	Punica granatum L.
Plant Part:	Seeds (dried)
Extraction Method:	Supercritical CO_2 extraction of dried seeds; pure extract, no carrier
Origin:	Türkiye

Fatty Acid Composition (GC-FID, % of total fatty acids; SFA — saturated, MUFA — monounsaturated, PUFA — polyunsaturated fatty acids):

Fatty Acid	Lipid Number	Type	Content
Punicic acid (CAS 544-72-9)	C18:3ω5	PUFA	> 50 %
Linoleic acid (CAS 60-33-3)	C18:2ω6	PUFA	< 10 %
Oleic acid (CAS 112-80-1)	C18:1ω9	MUFA	< 6 %
Palmitic acid (CAS 57-10-3)	C16:0	SFA	< 3 %
Stearic acid (CAS 57-11-4)	C18:0	SFA	< 2 %
cis-11-Eicosenoic acid (CAS 5561-99-9)	C20:1ω9	MUFA	< 1 %
Arachidic acid (CAS 506-30-9)	C20:0	SFA	< 1 %

Other Key Compounds:

Compound	Content
Squalene (CAS 111-02-4)	> 1.0 %

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 cautiously with water for several minutes; remove contact lenses, if present and easy to do. Seek medical attention if irritation persists.
Ingestion	Rinse mouth with water. 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: >65 °C (>149 °F), closed cup. 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 and place in closed containers. Absorbent materials and cloths soaked with the oil can self-heat in air; keep them wetted with water or in closed metal containers until disposal. Dispose of 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 5–25 °C. Protect from heat and sunlight.
Packaging Materials	Dark glass, stainless steel, food-grade HDPE. Avoid uncoated copper, iron or zinc containers. Keep containers tightly closed; nitrogen blanketing is recommended for bulk storage.
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	Wear safety glasses with side shields (EN 166) where splashing is possible.
Hand Protection	Wear protective gloves (e.g. nitrile rubber, EN ISO 374-1) for prolonged contact.

9. Physical and Chemical Properties

Appearance	Pale yellow oil
Odor	Subtly fruity, with a faint tangy undertone
pH	Not applicable
Flash Point	>65 °C (>149 °F), closed cup
Density	0.930–0.950 g/cm³ at 20 °C (typical)
Solubility (Water)	Immiscible with water; miscible with vegetable oils
Viscosity	Oily liquid of low to medium viscosity
Solvent Residues	None (CO_2 extraction)

10. Stability and Reactivity

Chemical Stability	Stable under recommended storage conditions. Owing to its high content of punicic acid, a conjugated polyunsaturated fatty acid, the product oxidizes on prolonged exposure to air, light and heat.
Conditions to Avoid	High temperatures, prolonged exposure to air and light, ignition sources.
Incompatible Materials	Strong oxidizers, concentrated acids, strong bases. Copper, iron and their salts promote oxidation.

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 eye irritation. Direct contact may cause mild, temporary irritation.
Sensitization	Not classified as a skin or respiratory sensitiser.
Carcinogenicity	Not classified for carcinogenicity.

12. Ecological Information

Toxicity	Not classified as hazardous to the 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 06 — organic wastes other than those mentioned in 16 03 05

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 – Not classified | Cosmetics Regulation (EC) No 1223/2009 – Compliant where applicable

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

16. Other Information

Product Specifications

Botanical Source	Punica granatum L.
Plant Part Used	Seeds (dried)
Extraction Method	Supercritical CO_2 extraction of dried seeds; pure extract, no carrier
Country of Origin	Türkiye
Shelf Life	24 months
Storage	Store at 5–25 °C, protect from light

Revision Information: Revision Date: 18.10.2026 | Version: 1.3 | Changes from the previous version: Section 9.

Literature References: Batch TDS AF-PUGR1TSF (20251229-PUGR1TSF); 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