XI'AN LAND NUTRA CO.,LTD
Room 1202, Building 1, Vanke Huizhi Center, No. 56, Xifeng Road,
Yanta District, Xi'an City, Shaanxi Province,China

MATERIAL SAFETY DATA SHEET

1. Identification of Substance

Product Name: Cranberry Extract
Synonyms: Cranberry Fruit Extract, Vaccinium macrocarpon Extract, Cranberry Concentrate Powder
Botanical Source: Fruit of Vaccinium macrocarpon Aiton
Product Description: Standardized botanical extract derived from whole cranberry fruits, containing anthocyanins and proanthocyanidins (PACs)
Specification: Total Anthocyanins ≥ 25% (HPLC/UV-Vis)
CAS No.: 91770-88-6 (Cranberry extract)
Product Form: Dark red to purple-red fine powder
Supplier/Manufacturer Details: Xi'an Land Nutra Co., Ltd.
Address: 12th Floor, Vanke Huizhi Center, Yanta District, Xi'an City, Shaanxi, China
Email: sale01@landnutra.com

2. Hazards Identification

Classification (GHS): Not classified as hazardous
Label Elements:
Signal Word: None
Hazard Statements: None
Precautionary Statements: None
Other Hazards:
May form combustible dust during processing
Powder may cause mild mechanical irritation to eyes and respiratory tract
Hygroscopic – absorbs moisture from air
May cause temporary staining of skin, clothing, and surfaces (harmless)

3. Composition/Information On Ingredients

Mixture: Standardized plant extract

Component	Specification	Test Method
Total Anthocyanins	≥ 25.0%	HPLC/UV-Vis
Proanthocyanidins (PACs)	≥ 3.0%	BL-DMAC
Moisture	≤ 5.0%	Gravimetric
Carrier/Excipients	≤ 10% (optional)	-

Heavy Metals: Conforms to food grade standards
Microbiological: Conforms to food grade standards

4. First Aid Measures

Inhalation: Move to fresh air. Seek medical attention if symptoms persist.
Skin Contact: Wash with soap and water. May cause temporary staining (harmless).
Eye Contact: Rinse with water for 15 minutes. Remove contact lenses. If irritation persists, consult physician.
Ingestion: Rinse mouth. Drink water. Safe at recommended doses.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, foam, CO_2, dry chemical
Specific Hazards: Decomposes upon heating, emitting CO, CO_2. Dust may form explosive mixtures with air.
Special Protective Equipment: Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal Precautions: Wear dust mask, goggles, gloves. Eliminate ignition sources.
Environmental Precautions: Prevent entry into drains or waterways.
Cleanup Methods: Collect using damp cloth or vacuum suitable for combustible dust. Place in sealed container.

7. Handling And Storage

Handling: Avoid dust generation. Use local exhaust ventilation. Wash hands after handling.
Storage: Store in cool (<25°C), dry, dark place. Keep tightly sealed. Protect from light and moisture.
Shelf Life: 24 months under recommended conditions.

8. Exposure Controls/Personal Protection

Respiratory Protection: N95 mask if airborne dust present
Hand Protection: Nitrile or latex gloves
Eye Protection: Safety goggles
Skin Protection: Lab coat

9. Physical And Chemical Properties

Property	Specification
Appearance	Dark red to purple-red fine powder

Property	Specification
Odor	Characteristic fruity
Solubility	Soluble in water
pH (5% solution)	3.0–5.0
Total Anthocyanins	≥ 25.0%
Moisture	≤ 5.0%
Bulk Density	0.4–0.7 g/cm³

10. Stability And Reactivity

Stability: Stable under recommended conditions. Sensitive to light, oxygen, heat, and alkaline pH.
Conditions to Avoid: High temperature, humidity, direct sunlight, strong oxidizing agents.
Incompatible Materials: Strong oxidizing agents, strong bases.
Decomposition Products: CO, CO_2 upon combustion.

11. Toxicological Information

Acute Toxicity: Oral LD_{50} > 5,000 mg/kg – non-toxic
Skin Irritation: Non-irritating; may cause temporary staining
Eye Irritation: Mild mechanical irritation only
Respiratory Irritation: Dust may cause mild irritation
Sensitization: Not known to be a sensitizer
Carcinogenicity: Not classified as carcinogenic

12. Ecological Information

Ecotoxicity: Low toxicity expected
Degradability: Readily biodegradable
Bioaccumulation: Low potential

13. Disposal Considerations

Dispose in accordance with local regulations. Incineration at licensed facilities recommended. Do not dispose into sewers or waterways.

14. Transport Information

UN Number: Not regulated

Proper Shipping Name: Not dangerous goods
Transport Hazard Class: Not classified
Packing Group: Not applicable

15. Regulatory Information

China: Permitted as food ingredient. Not listed in Catalog of Hazardous Chemicals.
EU: Permitted as food supplement. Not classified as hazardous under CLP.
US: GRAS as dietary supplement. California Prop 65 compliant.

16. Other Information

Disclaimer: This SDS is for safety guidance only. No warranty is made. User is responsible for compliance with all applicable laws.