



Alborz Innovation and Creative Industries Factory  
Karaj, Iran

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MSDS

**Revision: 001**

**Revision Date: 22 NOV 2025**

**Trade Name: Human Liver Ferritin**

## Section 1: Identification of the Substance/Mixture and Company

**Product Identifier:** Human Liver Ferritin **Identified Use:** For in-vitro diagnostic (IVD) and laboratory research purposes **Prohibited Uses:** None **Manufacturer Details:**

- **Company Name:** Nojan Zist Fanavaran
- **Address:** Tehran, Valenjak, Daneshjoo Blvd, Edalat St, Avran Tower Comprehensive Applied Science Center, No. 0, Health Technology & Incubation Center,
- **Telephone:** +98-930-600-4641
- **Email:** nojanzistfanavaran@gmail.com

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## Section 2: Hazard Identification

**GHS Classification:** Non-hazardous **Physical and Chemical Hazards:** None **Signal Word:** None  
**Hazard Statements:** None **Precautionary Statements:**

- **Prevention:** Avoid contact with skin and eyes. Do not inhale.
- **Response:** Follow first aid measures outlined in Section 4.
- **Storage:** Store at 2–8°C. Avoid freezing.
- **Disposal:** Dispose of in accordance with local regulations. **Potential Health Effects:**
- **Inhalation:** No data available.
- **Skin:** May cause irritation.
- **Eyes:** May cause redness and tearing.
- **Ingestion:** No data available.
- **Chronic Effects:** No data available.

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## Section 3: Composition/Information on Ingredients

| substance name | Cas number | Properties and role | Concentration |
|----------------|------------|---------------------|---------------|
|----------------|------------|---------------------|---------------|

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|                             |           |                                                              |                  |
|-----------------------------|-----------|--------------------------------------------------------------|------------------|
| <b>Human liver ferritin</b> | 9007-73-2 | Main active substance of human origin                        | ≥95%(1–10 mg/mL) |
| <b>Thiomersal</b>           | 54-64-8   | Antimicrobial and antifungal preservative (in trace amounts) | <0.02%           |
| <b>Sodium chloride</b>      | 7647-14-5 | Buffer (osmotic balance)                                     | 0.9%             |
| <b>Tris buffer</b>          | 77-86-1   | Buffer (pH control)                                          | <1%              |

#### Section 4: First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if irritation persists.
- **Skin Contact:** Remove contaminated clothing and wash skin with water. Seek medical attention if irritation persists.
- **Eye Contact:** Rinse thoroughly with plenty of water. Remove contact lenses if present. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth with water. Seek medical attention if symptoms occur.

#### Section 5: Fire-Fighting Measures

- **General Information:** The substance is not flammable.
- **Suitable Extinguishing Media:** Carbon dioxide, dry powder, foam, or water spray.
- **Unsuitable Extinguishing Media:** None specified.
- **Specific Hazards:** Not combustible, but may release hazardous vapors in a fire.
- **Firefighter Protection:** Use self-contained breathing apparatus and full protective clothing.

#### Section 6: Accidental Release Measures



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- **Personal Precautions:** Avoid inhalation of vapors and evacuate the area.
- **Environmental Precautions:** Prevent entry into sewers or water sources.
- **Cleanup Methods:** Absorb with inert material and dispose of according to local regulations.

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## Section 7: Handling and Storage

- **Handling:** Follow laboratory hygiene practices. Minimize contact with skin and clothing.
- **Storage:** Store in a sealed container at 2–8°C. Avoid freezing.

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## Section 8: Exposure Controls/Personal Protection

- **Eye Protection:** Safety goggles.
- **Skin Protection:** Generally not required.
- **Respiratory Protection:** Required only in aerosol-forming conditions.
- **Environmental Precautions:** Prevent entry into sewers.

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## Section 9: Physical and Chemical Properties

- **Appearance:** Clear liquid solution
  - **Color:** Reddish-brown
  - **Odor:** Odorless
  - **pH:** 7.4 (as per formulation)
  - **Melting/Freezing Point:** Not determinable
  - **Boiling Point:** Not determinable
  - **Flash Point:** None
  - **Solubility:** Fully soluble in water
  - **Viscosity:** None
  - **Explosive/Oxidizing Properties:** None
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## Section 10: Stability and Reactivity

- **Stability:** Stable at room temperature.
  - **Conditions to Avoid:** Freezing and extreme heat. Avoid prolonged contact with acids, bases, or oxidizing agents.
  - **Incompatible Materials:** None.
  - **Hazardous Decomposition Products:** None.
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## Section 11: Toxicological Information

- **Acute Toxicity:** Oral, dermal, inhalation – low or no data available.
  - **Skin/Eye Irritation:** May cause irritation.
  - **Sensitization, Mutagenicity, Carcinogenicity, Reproductive Toxicity:** No data available.
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## Section 12: Ecological Information

- **Ecotoxicity, Bioaccumulation, Degradability:** No data available.
  - **Persistence and Degradability:** Protein-based material; biological degradability possible, but consider the effects of additives/preservatives (e.g., thiomersal).
  - **PBT/vPvB Assessment:** Not classified as PBT or vPvB.
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## Section 13: Disposal Considerations

Dispose of waste and containers in accordance with national regulations.

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## Section 14: Transport Information

- **Hazard Classification:** None.
- **Packing Group:** None.
- **Environmental Hazards:** None.



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## Section 15: Regulatory Information

- **National Regulations:** The General Directorate of Medical Equipment (IMED system) oversees the registration and supervision of medical devices and supplies. Human-derived products require technical dossiers and compliance with safety and performance requirements for production/import registration. Safety documentation and quality control programs (e.g., ISO 13485) are typically required.
- **Inventory Listings:** For export/import, registration in EINECS/TSCA/IECSC inventories is recommended based on the target market.