



MSDS

Alborz Innovation and Creative Industries Factory
Karaj, Iran

Telephone: +98 930 600 4641

Email: info@nozhanbiotech.com

www.nozhanbiotech.com

Trade Name: Bovine Serum Albumin (BSA)

Revision: 001

Revision Date: 19 NOV 2025

Material Safety Data Sheet (MSDS)

Product Name: Bovine Serum Albumin (BSA)

Cas Number: 9048-46-8

Section 1: Substance/Preparation and Company Identification

Product Identifier: Bovine Serum Albumin (BSA)

Identified Uses: Diagnostic (IVD) applications and laboratory research (as a blocking agent in immunoassays and ELISA, and for preparing cell culture media)

Uses Advised Against: None

Manufacturer:

- **Company Name:** Nojan Biotech
- **Address:** Tehran, Velenjak, Shahid Beheshti University, Ibn Sina Research Institute
- **Phone:** +98 930 600 4641
- **Email:** nozhanzistfanavarar@gmail.com

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 in Section 4.
- **Storage:** Store at 2–8°C. Avoid freezing.
- **Disposal:** Dispose of in accordance with national regulations.

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- **Inhalation:** No data available. (However, occupational asthma and rhinitis due to inhalation of BSA powder have been reported.)
- **Skin:** May cause irritation.
- **Eyes:** May cause redness and tearing.
- **Ingestion:** No data available.
- **Chronic Effects:** No data available.

Section 3: Composition / Information on Ingredients

substance name	Cas number	Properties and role	Concentration
Bovine Serum Albumin	9048-46-8	Main active substance	≥98% purity (200 mg/ml)
Tween 20	9005-64-5	Detergent	0.005%

Section 4: First Aid Measures

- **Inhalation:** Move to fresh air; seek medical attention if irritation persists.
- **Skin Contact:** Remove contaminated clothing; wash skin with water.
- **Eye Contact:** Rinse thoroughly with water.
- **Ingestion:** Rinse mouth with water; seek medical attention if symptoms occur.

Section 5: Firefighting Measures

- **Non-flammable**
- **Suitable Extinguishing Media:** CO₂, dry powder, foam, water spray

Section 6: Accidental Release Measures

- Avoid dust formation.



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- Prevent entry into water systems.
- Avoid inhalation dust
- **Symptoms/effects after inhalation:** May cause respiratory irritation

Section 7: Handling and Storage

Follow laboratory hygiene; store dry at 2–8°C.

Section 8: Exposure Controls / Personal Protection

- Wear safety goggles and gloves; use mask if dust forms.
- Wear personal protective equipment.
- Use only outdoors or in a well-ventilated area.
- Avoid breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Section 9: Physical and Chemical Properties

- **Appearance:** Lyophilized powder
- **Color:** White to off-white
- **Solubility:** Soluble in water
- **pH:** 5.2
- **Odor:** Odorless
- **Melting point:** No data available
- **Freezing point:** Not applicable
- **Boiling point:** No data available
- **Flash point:** Not applicable

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- **Relative evaporation rate (butyl acetate=1):** No data available
- **Flammability (solid, gas):** Non flammable
- **Vapor pressure:** No data available
- **Relative vapor density at 20 °C:** No data available
- **Relative density:** No data available
- **Solubility:** No data available
- **Partition coefficient n-octanol/water (Log Pow):** No data available
- **Auto-ignition temperature:** Not applicable
- **Decomposition temperature:** No data available
- **Viscosity, kinematic:** Not applicable
- **Viscosity, dynamic:** No data available
- **Explosion limits:** Not applicable
- **Explosive properties:** No data available
- **Oxidizing properties:** No data available

Section 10: Stability and Reactivity

Stable under recommended conditions. (2-8°)

Section 11: Toxicological Information

- **The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.**
- **Limited data; may cause irritation.**

Section 12: Ecological Information

No data available



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Section 13: Disposal Considerations

Dispose in accordance with regulations.

Section 14: Transport Information

Keep refrigerated (2–8 °C) and ensure cold chain integrity

Section 15: Regulatory Information

Requires compliance with IMED and ISO 13485.