



## MATERIAL SAFETY DATA SHEET

### SECTION 1: PRODUCT AND COMPANY

- ◆ **Product name:** Bovine Serum Albumin Standards
- ◆ **Catalog number:** BA00070
- ◆ **Chemical name or synonyms:** none
  - *Standards of Bovine Serum Albumin* – (catalog number BA00070)

- ◆ **Contact :**

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### SECTION 2 – HAZARDS IDENTIFICATION

- ◆ **GHS Classification**

No

- ◆ **GHS Label element**

Signal Word:	None
Hazard Statements:	None
Pictograms:	None

- ◆ This product contains hazardous ingredients (Yes; No; Not Applicable or no information): **No**
- ◆ This product contains hazardous carcinogens (Yes; No; N/A): **No**
- ◆ This product contains hazardous ingredients to the environment. (Yes; No; N/A): **No**

### SECTION 3 – COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient name	CAS number	%	EINECS	Classification
<b>Water</b>	7732-18-5	>80%	231-791-2	None
<b>Bovine serum albumin</b>	7732-18-5	-	231-791-2	None

*Components with very limit values (traces) that require monitoring at the workplace:*

Sodium chloride, (CAS 7647-14-5, EINECS : 231-598-3), 0.9%

Sodium azide, (CAS 26628-22-8, EINECS : 247-852-1), 0.05%

**This product contains hazardous ingredients (yes; no; n/a; n/i):** **no**

**This product contains hazardous carcinogens (y; n; n/a; n/i):** **no**

### SECTION 4-HEALTH HAZARD DATA

- ◆ **Health Effects (acute and chronic):**  
Not significant Known Health Effects.
- ◆ **Primary Routes of Entry:**  
Inhalation and ingestion  
Eye contact from splashes possible  
Readily absorbed through the skin.
- ◆ **Medical Conditions Aggravated by Exposure:**  
Not known
- ◆ **Emergency First Aid Procedures:**

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- **Eye contact** – Flush contaminated eye(s) with large volumes of water for at least 15 minutes. Get medical attention if eye(s) remain irritated.
- **Skin contact** – Flush contaminated areas with large volumes of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if skin remains irritated.
- **Ingestion** – Keep victim warm and calm. Get immediate medical attention.
- **Inhalation** – Move victim to fresh air. Give oxygen if breathing becomes difficult. Should breathing stop, give artificial respiration.
- Wash contaminated clothing before reuse.

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### SECTION 5 – FIRE FIGHTING MEASURES

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- ◆ **Flammability of the product:** May be combustible at high temperature.
- ◆ **Flash Point:** Not available.
- ◆ **Fire hazards in presence of various substances:** Not considered to be flammable.
- ◆ **Fire fighting media and instructions:** Use dry chemical, CO<sub>2</sub>, water spray or foam.
- ◆ **Protective clothing (fire):** Be sure to use an approved/certified respirator or equivalent.
- ◆ **Hazardous thermal decomposition products:** Burning produces irritant fumes.

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### SECTION 6 – ACCIDENTAL RELEASE MEASURES

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- ◆ **Personal precautions, protective equipment and emergency procedures**  
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.  
Evacuate personnel to safe areas.  
For personal protection see section 8.
- ◆ **Environmental precautions**  
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- ◆ **Methods and materials for containment and cleaning up**  
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- ◆ **Reference to other sections**  
For disposal see section 13.

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### SECTION 7 – HANDLING AND STORAGE

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- ◆ **Handling and storage:**
  - *Information for safe handling:* Ensure good ventilation/exhaustion at the workplace. No special precautions are necessary if used correctly.
  - *Information about protection against explosions and fires:* No special measures required.
  - *Requirements to be met by storerooms and receptacles:* No special requirements.
  - *Information about storage in one common storage facility:* Not required.
  - *Further information about storage conditions:* Keep receptacle tightly sealed.
- ◆ **Stability and reactivity:**
  - *Thermal decomposition / conditions to be avoided:* No decomposition if used according to specifications.
  - *Dangerous reactions* No dangerous reactions known
  - *Dangerous products of decomposition:* No dangerous decomposition products known

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### SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

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- ◆ **Ventilation Data:**
  - Provide adequate general exhaust ventilation.
- ◆ **Respiratory Protection:**
  - None required if ventilation is adequate.

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- ◆ **Protective Gloves:**
  - Rubber or chemical resistant gloves should be worn.
- ◆ **Other Protective Equipment:**
  - Safety glasses with side shields are advised. Eye wash stations and deluge showers should also be available. Finally, a lab coat should be worn.
- ◆ **Other Engineering Controls:**
  - None
- ◆ **Work Practices:**
  - Good laboratory technique should be used when handling this product. Do not mouth pipette. Observe appropriate chemical hygiene. Avoid contact with skin or eyes.
- ◆ **Hygienic Practices:**
  - Do not eat, drink, or smoke while working with reagents. Upon completion of work activities involving this product, wash any exposed body areas thoroughly with soap and water.

### SECTION 9-PHYSICAL AND CHEMICAL PROPERTIES

- ◆ **Physical state and appearance:**
  - *Standards of Bovine Serum Albumin* liquid, colorless and odorless
- ◆ **Melting point:**
  - *Standards of Bovine Serum Albumin* 0°C
- ◆ **Boiling Point:**
  - *Standards of Bovine Serum Albumin* undetermined
- ◆ **Flash point:** not applicable
- ◆ **Ignition temperature :** N/a
- ◆ **Auto igniting:** Product is not self-igniting
- ◆ **Vapor Pressure at 20 °C:** 23.0 hPa
- ◆ **Vapor density:** Not determined
- ◆ **Density at 20°C:** *Standards of Bovine Serum Albumin* 1 g/cm<sup>3</sup>
- ◆ **pH-value at 20°C:** 6.9, *Standards of Bovine Serum Albumin*
- ◆ **Solubility in Water:**
  - *Standards of Bovine Serum Albumin* Soluble
- ◆ **Specific Gravity (water = 1):** ~1
- ◆ **Danger of explosion:** Products does not present an explosion hazard
- ◆ **Percent volatile by volume (%):** N/A
- ◆ **Evaporation Rate:** 0.36 (compared to butyl acetate)
- ◆ **Solvent contents:**
  - ◆ *Standards of Bovine Serum Albumin* Organic solvents 0%, water 98.9%

### SECTION 10-REACTIVITY DATA

- ◆ **Stability and reactivity:**
  - The product is stable under recommended storage conditions.
- ◆ **Incompatibility (material to avoid):**
  - Reactive with organic materials
- ◆ **Hazardous Decomposition Products:**
  - Not applicable
- ◆ **Will Hazardous Polymerization Occur:**
  - Will not occur
- ◆ **Condition to avoid/stability:**
  - Excess heat, flame or pressure.
- ◆ **Unusual Fire and Explosion Hazards:**
  - Product does not present an explosion hazard

### SECTION 11: TOXICOLOGICAL INFORMATION

◆ **Standards of Bovine Serum Albumin acute toxicity**

Primary irritant effect : no irritant effect  
Sensitization : no sensitizing effects known

◆ **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

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**SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

no data available

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**SECTION 13: DISPOSAL CONSIDERATIONS**

◆ **Waste treatment methods**

**Recommendation**

Hand over to hazardous waste disposers.  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

◆ **Uncleaned packagings:**

**Recommendation:** Disposal must be made according to official regulations.

**Recommended cleansing agent:** Water, if necessary with cleansing agents.

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**SECTION 14 – TRANSPORT INFORMATION**

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**D.O.T.:** Not regulated.

**IATA.:** Not regulated.

**IMDG:** Not regulated.

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**SECTION 15 – OTHER INFORMATION**

◆ **US Federal Regulations**

RCRA (Lists of Hazardous Wastes,  
40 CFR 261 Subpart D):

Not applicable

CLEAN AIR ACT (SEC. 112.  
Hazardous Air Pollutants): Not applicable

CLEAN WATER ACT (RQ, 40 CFR): Not applicable

SARA Title III:

Section 302 -304, 40 CFR 355: Components present in this product at a level which could require reporting are:  
none.  
Section 311 - 312: Components present in this product at a level which could require reporting are:  
none.  
Section 313: Not applicable

TSCA Section 8(b) Inventory Status: All ingredients are listed on TSCA Inventory of Chemical Substances or exempt from TSCA Inventory requirements.

AICS Inventory Status: All ingredients are listed on the Australia Inventory of Chemical Substances.

State Lists

This product does not contain any Proposition 65 chemicals.

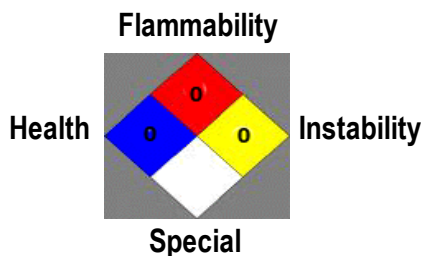
- ◆ This product is not classified according to the EU regulations.

SECTION 16– OTHER INFORMATION

- ◆ **Hazardous Material Information System (U.S.A.):**

<b>Health</b>	<b>0</b>
<b>Fire hazard</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal protection</b>	

- ◆ **National Fire Protection Association (U.S.A.):**



- ◆ **Revisions:**

Issue Date: 22-May-2014  
Last Revision Date: 23-Aug-2016  
Revision note: New format. updated Section 2,8,15,16.

- ◆ **Other Comments:**

To the best of our knowledge, the information contain herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.  
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Restriction of use:** for research use only.

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