

## Safety Data Sheet

### Section 1: Identification

<b>Product Name</b>	Bovine Serum Albumin BCS Reagent Grade Solution, 0.1% Sodium Azide Preserved
<b>SKU number</b>	68610
<b>Relevant identified uses of the substance or mixture and uses advised against</b>	
<b>Recommended use</b>	Laboratory chemicals, manufacture of substances
<b>Company</b>	Proliant Health & Biologicals 2020 Lakewood Drive Boone, IA 50036
<b>Emergency telephone number</b>	(515) 432-8184

### Section 2: Hazard Identification

<b>Classification of the substance or mixture</b>	Not a hazardous substance or mixture
<b>Label elements</b>	Preserved with sodium azide 0.08 to 0.12%
<b>Hazards not other classified (HNOC)</b>	None known

### Section 3: Composition/Information on Ingredients

CAS# 9048-46-8	Bovine Serum Albumin
CAS# 7732-18-5	Water
CAS# 57-88-5	Cholesterol, Bovine
CAS# 26628-22-8	Sodium Azide

### Section 4: First Aid Measures

<b>Inhalation</b>	Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Seek medical attention.
<b>Skin</b>	Rinse with plenty of water. If symptoms arise, get medical attention.
<b>Eye</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion** Do NOT induce vomiting. If person is drowsy or unconscious and vomiting, place on the left side with head down. Seek medical attention.

**Most important symptoms and effects, both acute and delayed** None reasonably foreseeable.

**Notes to physician** All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

### Section 5: Fire Fighting Measures

**Suitable Extinguishing Media** Use water spray, regular foam, carbon dioxide or dry chemical

**Unsuitable Extinguishing Media** None known

**Unusual Fire and Explosion Hazards** None known

**Advice for firefighters** Wear self-contained breathing apparatus and protective suit

### Section 6: Accidental Release Measures

**Personal Precautions** Use personnel protection equipment as specified in section 8. Ensure adequate ventilation.

**Environmental Precautions** Do not let product enter drains.

**Methods / Materials for Containment/Clean-up** Sweep up into suitable containers for recovery or disposal. Dispose of content and/or container to licensed waste disposal site in accordance with local, regional, national, and/or international regulations.

### Section 7: Handling and Storage

**Handling** Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with eyes, skin, or clothing, Avoid ingestion.

**Storage** Store at 2 to 8°C.

**Incompatible Materials or Ignition Sources** No known material or ignition sources

## Section 8: Exposure Controls/Personal Protection

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Sodium Azide	Ceiling: 0.29 mg/m <sup>3</sup> Ceiling: 0.11 ppm	Skin (Vacated) Ceiling: 0.1 ppm (Vacated) Ceiling: 0.3 mg/m <sup>3</sup>	Ceiling: 0.1 ppm Ceiling: 0.3 mg/m <sup>3</sup>	Ceiling: 0.29 mg/m <sup>3</sup> Ceiling: 0.11 ppm

#### Legend

**ACGIH** - American Conference of Governmental Industrial Hygienists

**OSHA** - Occupational Safety and Health Administration

**NIOSH IDLH**: NIOSH - National Institute for Occupational Safety and Health

#### Engineering Measures

Ensure adequate ventilation systems as determined necessary

#### Personal Protective Equipment

##### Respiratory

Respiratory protection is not required. If desired a type-OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Eye/Face

Use equipment for eye protection tested and approved under appropriate Government standards such as NIOSH (US) or EN 166 (EU).

##### Skin/Body

Handle with gloves. Wear appropriate protective gloves and clothing to Prevent skin exposure. Handle in accordance with good industrial hygiene and safety practices.

#### Environmental Exposure Controls

Follow best practice for site management and disposal of waste. Do not let product enter drains. Discharge into the environment must be avoided.

## Section 9: Physical and Chemical Properties

### Material Description

#### Physical form

Liquid

#### Appearance

Clear, straw-colored to light brown solution

#### Odor

Neutral

#### Boiling point/range

No data available

#### Melting point/range

No data available

<b>pH</b>	7.0 to 7.2
<b>Evaporation</b>	No data available
<b>Flammability</b>	No data available
<b>Vapor</b>	No data available
<b>Bulk density</b>	No data available
<b>Solubility</b>	Soluble in water
<b>Partition coefficient</b>	No data available
<b>Autoignition</b>	No data available
<b>Oxidizing properties</b>	No data available

### Section 10: Stability and Reactivity

<b>Reactivity</b>	None known under conditions of normal use
<b>Chemical stability</b>	Stable under normal temperatures and pressures
<b>Hazardous reactions</b>	None known under conditions of normal use
<b>Incompatible materials</b>	Strong oxidizing agents
<b>Hazardous decomposition products</b>	None known under conditions of normal use
<b>Hazardous polymerization</b>	Hazardous polymerization will not occur

### Section 11: Toxicological Information

#### Mixture

#### Acute Toxicity

<b>Oral LD50</b>	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
<b>Dermal LD50</b>	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
<b>Vapor LD50</b>	Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

#### Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	-	-	-
Bovine Serum Albumin	-	-	-
Sodium Azide	LD50 Rat = 27 mg/kg	-	Not Listed
Cholesterol	LD50 Rat > 2000 mg/kg	LD50 Rat > 2000 mg/kg	Not Listed

**Toxicologically Synergistic Products** No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Irritation** No information available

**Sensitization** No information available

**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as carcinogen

Component	CAS-No	IRAC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Bovine Serum Albumin	9048-46-8	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Sodium Azide	26628-22-8	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Cholesterol	57-88-5	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

**Mutagenic Effects** No information available

**Reproductive Effects** No information available

**Developmental Effects** No information available  
**Teratogenicity** No information available

**STOT – Single exposure** None known  
**STOT – Repeated exposure** None known

**Aspiration hazard** No information available

**Symptoms/effects, both acute and delayed** No information available

**Endocrine disruptor information** No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated

**Section 12: Ecological Information**

**Ecotoxicity** Do not empty into drains

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium Azide	Not listed	LC50: = 0.8 mg/L, 96h (Oncorhynchus mykiss) LC50: = 0.7 mg/L, 96h (Lepomis macrochirus) LC50: = 5.46 mg/L, 96h flow-through (Pimephales promelas)	Not listed	Not listed

**Persistence and degradability** No information available

**Bioaccumulation** No information available

**Mobility in Soil** No information available

### Section 13: Disposal Considerations

**Product waste** Dispose of content and/or container to licensed waste disposal site accordance with local, regional, national, and/or international regulations.

**Packaging waste** Dispose of content and/or container to licensed waste disposal site in accordance with local, regional, national, and/or international regulations.

### Section 14: Transport Information

**IATA**

**Proper shipping name** Not classified as dangerous in the meaning of transport regulations

**Hazard Class** None

**Subsidiary Class** None

**Packing Group** None

**UN-Number** None

### Section 15: Regulatory Information

**SARA Hazard Classifications**

**SARA 313**

Component	CAS-No	Weight %	SARA 313 - Threshold Value %
Sodium Azide	26628-22-8	0.10%	1%

**SARA 311/312 Hazard Categories:**

See section 2 for more information

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (40 CFR Part 61)**

This product does not contain HAPs.

**California Proposition 65**

This product does not contain chemicals listed under Proposition 65.

**U.S. State Right-to-Know**

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium Azide	X	X	X	-	X
Cholesterol	-	X	X	-	-
Water	-	-	X	-	-

**Section 16: Other Information**

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