

Safety Data Sheet

Section 1: Identification

Product name	Bovine Serum Albumin 30% Reagent Grade Solution, Salt Adjusted, 0.1% Sodium Azide Preserved
SKU number	68650
Relevant identified uses of the substance or mixture and uses advised against	
Recommended use	Laboratory chemicals, manufacture of substances
Company	Proliant Health & Biologicals 2020 Lakewood Drive Boone, IA 50036
Emergency telephone number	(515) 432-8184

Section 2: Hazard Identification

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

Section 3: Composition/Information on Ingredients

CAS# 9048-46-8	Bovine Serum Albumin
CAS# 7647-14-5	Sodium Chloride
CAS# 7732-18-5	Water
CAS# 26628-22-8	Sodium Azide

Section 4: First Aid Measures

Inhalation	Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.
Skin	Rinse with plenty of water. If symptoms arise, get medical attention.
Eye	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 ³ Ceiling: 0.11 ppm	Skin (Vacated) Ceiling: 0.1 ppm (Vacated) Ceiling: 0.3 mg/m ³	Ceiling: 0.1 ppm Ceiling: 0.3 mg/m ³	Ceiling: 0.29 mg/m ³ 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
pH	6.5 to 7.5
Evaporation	No data available
Flammability	No data available
Vapor	No data available
Bulk density	No data available
Solubility	Soluble in water
Partition coefficient	No data available
Autoignition	No data available
Oxidizing properties	No data available

Section 10: Stability and Reactivity

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

Section 11: Toxicological Information

Mixture

Acute Toxicity

Oral LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Dermal LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.

Vapor LD50

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
Sodium Chloride	LD50 Rat = 3000 mg/kg	LD50 > 10000 mg/kg (Rabbit)	LC50 > 42 mg/L (Rat) 1h

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
Sodium Chloride	7647-14-5	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
Sodium Chloride	Not listed	LC50 = 7650 mg/L, 96h (Pimephales promelas)	Not listed	EC50 = 1000 mg/L, 48h

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 in 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

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Sodium chloride	7647-14-5	X	Active	-

Legend:

TSCA US EPA (TSCA) – Toxic Substance Control Act, (40 CFR Part 710)

X – Listed

“-“ – Not Listed

TSCA 12(b) – Notices of Export Not applicable

U.S. Federal Regulations

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
Sodium Chloride	-	-	-	-	-
Water	-	-	X	-	-

Section 16: Other Information

Date created May 31, 2023

Date last revised May 31, 2023

Disclaimer/Statement of Liability

THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, REPRESENTATION, INDUCEMENT, OR LICENSE OF ANY KIND, EXCEPT THAT IT IS BELIEVED ACCURATE TO THE BEST OF OUR KNOWLEDGE OR OBTAINED FROM SOURCES BELIEVED TO BE ACCURATE. PROLIANT INC. DOES NOT ASSUME ANY LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON SAME. CUSTOMERS ARE ENCOURAGED TO CONDUCT THEIR OWN TESTS.