

Safety Data Sheet

Section 1: Identification

Product Name	Bovine Serum Albumin Standard Grade pH 7.0 Lyophilized Powder
SKU number	68100, 68101
Relevant identified uses of the substance or mixture and uses advised against	
Recommended use	Laboratory chemicals, manufacture of substances
Company	Proliant Health & Biologicals 2425 SE Oak Tree Ct Ankeny, IA 50021
Emergency telephone number	(515) 432-8184

Section 2: Hazard Identification

Classification of the substance or mixture	Not a hazardous substance or mixture
Label elements	None required
Hazards not other classified (HNOC)	None known

Section 3: Composition/Information on Ingredients

CAS# 9048-46-8	Bovine Serum Albumin
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The product does not contain substances that, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. We recommend handling all chemicals with caution.

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. Seek medical attention.
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	Inhalation (dust): Large quantities may cause sneezing. Eye contact: May cause irritation.
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	As with any organic dust, may be explosive if mixed with air in critical proportions
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 in clean, dry area at ambient temperature.
Incompatible Materials or Ignition Sources	No known material or ignition sources

Section 8: Exposure Controls/Personal Protection

Occupational Exposure	Contains no substances with occupational exposure limit values.
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	Wear appropriate protective eyeglasses or chemical safety goggles as described in OSHA 29 CFR 1910.133 or European Standard EN166.
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	Solid
Appearance	White-to-yellow with tan to green cast lyophilized powder
Odor	Neutral
Boiling point/range	No data available
Melting point/range	No data available
pH	6.5-7.5 in 10% water
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
Bovine Serum Albumin	-	-	-

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
Bovine Serum Albumin	9048-46-8	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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

Section 12: Ecological Information

Ecotoxicity	Do not empty into drains
Persistence and degradability	No information available
Bioaccumulation	No information available
Mobility in Soil	No information available
Results of PBT and vPvB Assessment	PBT/vPvB assessment not available as chemical safety assessment not conducted
Other adverse effects	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

DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods
Further information	Not classified as dangerous in the meaning of transport regulations.

Section 15: Regulatory Information

SARA 302 Components

This product does not contain any components with a section 302 EHS TPQ.

SARA 313 Components

This product does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting level established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards.

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	CAS-No	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Albumin, Bovine Serum	9048-46-8	-	X	X	-	-

Section 16: Other Information

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