



Health	1
Fire	0
Reactivity	0
Personal Protection	

Material Safety Data Sheet

Bovine Albumin Standard

1: Chemical Product and Company Identification

Product Name: Bovine Albumin Standard

Catalog Code: 22070006-1

CAS#: Mixture.

RTECS: Mixture.

TSCA: TSCA 8(b) inventory : Components were listed.

CI#: Not available.

Synonym: Not available.

Chemical Name: Bovine Albumin Standard

Chemical Formula: Mixture.

Contact information:

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In case of a chemical emergency, contact local hospital.

For non-emergency assistance, call: 1-800-860-9729

2: Composition and Information on Ingredients

Composition:

Name	CAS#	% by Weight
Bovine Albumin Fraction V	9048-46-8	1-32
Sodium Azide	26628-22-8	0.1
Sodium Chloride	7647-14-5	0.9
Water	7732-18-5	-

Toxicological Data on Ingredients:

Not available.

3: Hazards Identification

Potential Acute Health Effects: May cause eye irritation. The toxicological properties of this material have not been fully investigated. This is expected to be a low hazard for usual industrial handling.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

4: First Aid Measures

Eye Contact: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

Skin Contact: In case of contact, immediately wash skin with soap and copious amounts of water.

Serious Skin Contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Serious Inhalation: Not available.

Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Serious Ingestion: Not available

5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Product of Combustion: Sodium azide when heated to decomposition liberates nitrogen gas and sodium, which is explosive. Carbon dioxide and carbon monoxide may form when bovine albumin is heated to decomposition.

Fire Hazards in Presence of Various Substances:

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Dry chemical powder.

LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7: Handling and Storage

Precautions: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed.

Storage: Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

8: Exposure Controls/Personal Protection

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.

Personal Protection: Respiratory : Government approved respirator.

Hand: Chemical resistant gloves.

Eye: Safety glasses.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Boots. Dust respirator. Gloves.

Exposure Limits: Not available.

9: Physical and Chemical Properties

Physical State and Appearance: Liquid

Odor: Not available.

Taste: Not available.

Molecular Weight: Not available.

Color: Light green

pH(1% soln/water): Neutral.

Boiling Point: 100 °C (212 °F)

Melting Point: 32 °F

Critical Temperature: Not available.

Specific Gravity: 1

Vapour Pressure: 2.3

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Easily soluble in cold water.

10: Stability and Reactivity Data

Stability: Stable.

Instability Temperature: Not available.

Conditions of Instability: High temperatures, incompatible materials, dust generation, excess heat.

Incompatibility with various substances: Strong oxidizers.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

11: Toxicological Information

Routes of Entry: Skin contact. Eye contact. Ingestion. Inhalation.

Toxicity to Animals:

Not available.

Chronic Effects on Humans: Bovine Serum Albumin contains beta-lactoglobulin and alpha-lactalbumin, proteins in milk. This is a major cause for allergic reaction in humans. Subsequently, those with true milk allergies to milk protein should not ingest these milk proteins and should caution their use in any form.

Other Toxic Effects on Humans: Eye: Contact may cause transient eye irritation.

Skin: Low hazard for usual industrial handling.

Ingestion: Low hazard for usual industrial handling. May cause allergic reaction characterized by a rash.

Inhalation: Low hazard for usual industrial handling.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Product of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

13: Disposal Considerations

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental regulations.

14: Transport Information

DOT Classification: Not a DOT controlled material.

Identification: Not available.

Special Provisions for Transport: Not available.

15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Albumin, bovine, Fraction V; Sodium azide; Sodium chloride; Water.

Other Regulations: Symbol: Xn

R-Phrase: 22

S-Phrases: Not available.

Other Classifications:

WHMIS(Canada): Not controlled under WHMIS (Canada).

DSCL(EEC): Not available.

HMIS(U.S.A):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection:

National Fire Protection Association (U.S.A):

Health: 1

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment: Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety goggles.

16: Other Information

References: Not available.

Other Special Considerations: Not available.

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