Material Safety Data Sheet: Bovine Serum Albumin
(Component #2 of the XF Palmitate-BSA FAO Reagent)

Section I – Chemical Product Identification
Synonyms: Albumin, BSA, Bovine Albumin, Bovine Serum Albumin

Section II – Composition/Information On Ingredients
CAS number: 9048-46-8
EINECS: 232-936-2
Concentration (%): 94-100% w/w

Section III – Hazards Information
The chemical, physical and toxicological properties of this production have not been thoroughly characterized.
Avoid contact with eyes and skin;do not ingest or inhale.
The BSA product is of US origin and meets the current standards for reduction of TSE (Transmissible Spongiform Encephalopathy) risk.
This substance is not classified as dangerous according to U.S.OSHA 29 CFR 1910.1200 or EC Directive 67/548/EEC

Section IV – First Aid Measures
Inhalation: If inhaled, move person from exposure to fresh air. Seek medical attention if breathing becomes difficult.
Eye Contact: Immediately flush with copious amounts of tepid water. Remove contacts if worn. Obtain medical attention if needed or if symptoms persist.
Skin contact: Immediately flush with copious amounts of tepid water. Obtain medical attention if needed or if symptoms persist.
Ingestion: Rinse mouth with water.

Section V – Fire and Explosion Hazard Data
Flammable Properties: Material may burn when exposed to sufficient heat.
Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media: Unknown
Special protective equipment for fire-fighters: Firefighters should wear NIOSH-approved or equivalent Self-Contained Breathing Apparatus and full protective gear.

Section VI - Stability and Reactivity Data
Chemical stability: Stable under recommended use and storage conditions.
Materials to avoid: There are no known physical conditions believed to result in hazardous situations.
Hazardous decomposition products: No hazardous decomposition products are expected under routine use. Hazardous decomposition products formed under fire conditions.

Section VII - Physical/Chemical Characteristics
Appearance: White to Off-white powder
pH: 6 - 8, as solution
Specific Gravity: Not Applicable
Boiling Point: Not Applicable
Freezing Point: Not Applicable
Odor: None
Solubility: None
Vapor: >30% in water
Pressure: Not Applicable
Partition Coefficient: Not Applicable
Flammability/Explosivity in Air: Not Applicable
Auto-Ignition Temperature: Not Applicable
Flash Point: Not Applicable

Section VIII - Accidental Release Measures
Personal precautions: Avoid dust formation and wear suitable Personal Protection Equipment.
Environmental precautions: No data available.
Methods for cleaning up dam spills:
Soak up liquid with suitable absorbent then sweep or shovel.
Keep in suitable, closed containers for disposal.
Dispose of materials in accordance with all applicable federal, state and local regulations.

Section IX - Handling and Storage
Handling: Provide appropriate exhaust ventilation at places where aspiration can occur. Minimize contact and contamination of personal clothing and skin. Wash hands after handling.
Storage: Store in cool place or keep frozen. Keep container tightly closed in a dry and well-ventilated place.

Section X - Exposure Controls/Personal Protection
Personal protective equipment:
Respiratory protection: Respiratory protection is not required.
Hand protection: For prolonged or repeated contact, use protective gloves.
Eye protection: Safety glasses should be worn.
Hygiene measures: Exercise good, general industrial hygiene practice.
Carbon oxides, nitrogen oxides (NOx) may form during incineration.

Section XI - Disposal Considerations
Product: Observe all federal, state, and local environmental regulations.
Contaminated packaging: Dispose of as unused product.

Section XII - Transport Information
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

Section XIII - Toxicological Information
Acute toxicity:
Oral: no data available
Irritation and corrosion:
Skin: no data available
Sensitizing Remarks: no data available
Chronic exposure: No data available
Signs and Symptoms of Exposure: To the best of our knowledge,

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the chemical,physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

E**yes:** May cause eye irritation.

Ingestion: May be harmful if swallowed.

Section XIV - Ecological Information

Persistence and degradability: No data is available

Ecotoxicity effects: No data is available

Bioaccumulation Potentialand Environmental Mobility: No data is available

Section XV - Regulatory Information

The product is a raw material and not a finished good. The production and export is regulated by the United States Department of Agriculture,facility registration TX-TEC-0005.

This substance is not classified as dangerous according to Directive 67/548/EEC

Section XVI - Other Information

For R&D use only. Not for drug, household, or other uses.

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