

### 1. Identification

**Product Name:** Australia Source Fetal Bovine Serum, Gamma Irradiated

**Product Code:** FBS1824-002

**Other means of identification:** Not available

**Product type:** Liquid

#### Company Identification

**Company** Nucleus Biologics  
10929 Technology Place  
San Diego, CA 92127

**CAUTION: Not for therapeutic or diagnostic use.**

### 2. Hazards Identification

**OSHA/HCS status:** While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for users of this product.

#### GHS Classification/Label Elements

Signal Word: No signal word

Hazard statements: No known significant effects or critical hazards

#### **Precautionary statements**

Prevention: Not applicable

Response: Not applicable

Storage: Not applicable

Disposal: Not applicable

Hazards not otherwise classified: None known

#### **Principle Routes of Exposure/ Potential Health Effects**

Eyes: May cause eye irritation in susceptible persons

Inhalation: May be harmful by inhalation

Skin: May cause skin irritation in susceptible persons

Ingestion: May be harmful if swallowed

#### **Specific Effects**

Carcinogenic effects: None

Mutagenic effects: None

Reproductive toxicity: None

Sensitization: None

Target Organ Effects: No known effects under normal use conditions

#### **HMIS Classification**

Health Hazard: 0

Flammability: 0

Reactivity Hazard: 0

#### **NRPA Rating**

Health Hazard: 0

Fire: 0

Reactivity Hazard: 0

### 3. Composition/Information on Ingredients

<b>Substance/Mixture:</b>	Substance
<b>Other means of identification:</b>	Not available
<b>CAS Number/Other identifiers</b>	
CAS Number:	Not available
Product Code/ Reference Number:	FBS1824-002

The product contains no substances, which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

### 4. First Aid Measures

<b>Skin contact:</b>	Rinse with plenty of water. If symptoms arise, call a physician.
<b>Eye contact:</b>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. If symptoms arise, call a physician.
<b>Ingestion:</b>	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
<b>Inhalation:</b>	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
<b>Notes to physician:</b>	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### 5. Fire-Fighting Measures

<b>Suitable extinguishing media:</b>	Water spray. Carbon dioxide. Foam. Dry chemical.
<b>Special protective equipment for firefighters:</b>	Wear necessary protective equipment
<b>Special hazards arising from the substance:</b>	Not known
<b>Special advice for fire-fighters:</b>	Standard procedures for chemical fires

### 6. Accidental Release Measures

<b>Personal precautions:</b>	Use personal protective equipment
<b>Methods for cleaning up:</b>	Soak up with inert absorbent material

#### Environmental precautions

Prevent further leakage or spillage if safe to do so.  
See Section 12 & 13 for additional information.

## 7. Handling and Storage

- Handling:** Always wear recommended Personal Protective Equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face after handling. Remove contaminated clothing and protective equipment before entering eating areas.
- Storage:** Keep in a dry, cool and well-ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

## 8. Exposure Controls/Personal Protection

- Exposure limits:** Contains no substance with occupational exposure limits
- Engineering measures:** Ensure adequate ventilation, especially in confined areas

### Personal protective equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

- Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment
- Hand protection: Wear suitable, compatible chemical-resistant gloves
- Eye protection: Wear tight sealing safety goggles
- Skin & body protection: Wear lightweight protective clothing
- Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

- Environmental exposure controls:** Prevent product from entering drains

## 9. Physical and Chemical Properties

### General Information

- Form: Liquid
- pH: 6-8
- Odor: No information available
- Boiling Point/Range: No data available
- Melting Point/Range: No data available
- Flash point: No data available
- Autoignition temperature: No data available
- Oxidizing properties: No information available
- Water Solubility: Soluble

## 10. Stability and Reactivity

<b>Reactivity:</b>	None known
<b>Stability:</b>	Stable under normal conditions
<b>Materials to avoid:</b>	No dangerous reaction known under conditions of normal use
<b>Hazardous decomposition products:</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced

## 11. Toxicological Information

**Acute Toxicity:** No evidence available to indicate acute toxicity

### Principle routes of exposure/potential health effects

<b>Eyes:</b>	May cause eye irritation with susceptible persons
<b>Skin:</b>	May cause skin irritation in susceptible persons
<b>Inhalation:</b>	May be harmful by inhalation
<b>Ingestion:</b>	May be harmful if swallowed

**Carcinogenic effects:** None

**Mutagenic effects:** None

**Reproductive toxicity:** None

**Sensitization:** None

**Target Organ Effects:** No known effects under normal use conditions

## 12. Ecological Information

<b>Ecotoxicity effects:</b>	No information available
<b>Mobility:</b>	No information available
<b>Biodegradation:</b>	Inherently biodegradable
<b>Bioaccumulation:</b>	Does not bioaccumulate

## 13. Disposal Consideration

The generation of waste should be minimized wherever possible. Empty containers may retain product residue and should be disposed of accordingly. Dispose of in accordance with local, regional or national/federal regulations.

## 14. Transport Information

### IATA/ADR/DOT-US/IMDG

Proper shipping name:	Not classified as dangerous in the meaning of transport regulations
Hazard class:	None
Subsidiary class:	None
Packing group:	None
UN-No:	None

## 15. Regulatory Information

### U.S. Federal Regulations

#### **SARA 313**

This product is not regulated by SARA.

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

This product does not contain HAPs.

### U.S. State Regulations

#### **California Proposition 65**

This product does not contain chemicals listed under Proposition 65.

#### **WHMIS Hazard Class**

Non-controlled

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

## 16. Other Information

**Revision Date:** 16 Jan 2019

**FOR R&D USE ONLY.**

The preceding information represents recommendation based on prudent application of professional judgement and is to be used only as a guide. All materials may present unknown hazards and should be used with caution. Since Nucleus Biologics cannot control the methods, volumes, or conditions of use, the Company will not be liable for any damages or losses resulting from handling or contact with this product. The information in this MSDS does not constitute a warranty of merchantability or any other warranty, express or implied.