

1. Identification**Product Name:** New Zealand Source Fetal Bovine Serum**Product Code:** FBS1975-001**Other means of identification:** Not available**Product type:** Liquid**Company Identification****Company**Nucleus Biologics
16855 West Bernardo Drive, Suite 370
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

Substance/Mixture:	Substance
Other means of identification:	Not available
CAS Number/Other identifiers	
CAS Number:	Not available
Product Code/ Reference Number:	FBS1975-001

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

Skin contact:	Rinse with plenty of water. If symptoms arise, call a physician.
Eye contact:	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.
Ingestion:	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.
Inhalation:	Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.
Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-Fighting Measures

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

6. Accidental Release Measures

Personal precautions:	Use personal protective equipment
Methods for cleaning up:	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

Reactivity:	None known
Stability:	Stable under normal conditions
Materials to avoid:	No dangerous reaction known under conditions of normal use
Hazardous decomposition products:	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

Eyes:	May cause eye irritation with susceptible persons
Skin:	May cause skin irritation in susceptible persons
Inhalation:	May be harmful by inhalation
Ingestion:	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

Ecotoxicity effects:	No information available
Mobility:	No information available
Biodegradation:	Inherently biodegradable
Bioaccumulation:	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: 15-Dec-2016

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.