

# Material Safety Data Sheet

## Section 1 - Product and Company Identification

- 1.1 **Product Name:** NutriStem® hPSC XF with Human Serum Albumin.
- 1.2 **Catalog Number:** 05-100-1
- 1.3 **Synonyms:** NA
- 1.4 **Product Use:** NutriStem® hPSC XF with Human Serum Albumin is a xeno-free, Serum-Free Medium (SFM) designed to support the growth of human embryonic stem cells (hESC) and human induced pluripotent stem cells (hiPSC).
- 1.5 **Manufacturer/Supplier:** Biological Industries Israel Beit Haemek Ltd.  
**Address:** Kibbutz Beit Haemek, 25115, Israel
- 1.6 **General Information:** +972-(0)4-9960595  
**Transportation Emergency Number:** NA

## Section 2 - Hazards Identification

### 2.1 GHS Classification:

This Solution and its ingredients are NOT classified as Dangerous according to GHS guidelines

Health	Environmental	Physical
NA	NA	NA

GHS Label: NA

Symbols: NA

Hazard Statements	Precautionary Statements
NA	NA

### Section 3 - Composition / Information on Ingredients

#### 3.1

Component	CAS Number	Weight %
Purified Water	NA	>90%
HSA*	7002490-7	<1%

\* Human Serum Albumin complies with the specifications of the manufacturer and the requirements of the Ph. Eur. approval tests and is certified by the EMEA. Each unit of plasma has been tested and found to be non-reactive for Hepatitis B, surface Antigen (HBsAg), for antibody to HIV I-II and for anti HCV and HCV.

### Section 4 - First Aid Measures

- 4.1 Eyes:** Eye irritation is unlikely. In case of eye irritation, flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get immediate medical attention.
- 4.2 Skin:** Itching or irritation of the skin is unlikely. In case of skin irritation, immediately flush the skin with plenty of water while removing contaminated clothing and shoes. Wash contaminated clothing before reuse.
- 4.3 Ingestion:** Ingestion of mixture is unlikely. Get immediate medical attention. Do not induce vomiting unless directed by medical personnel.
- 4.4 Inhalation:** Irritation by inhalation is unlikely. In case of Nasal irritation, headache, dizziness, nausea, vomiting, heart palpitations, breathing difficulty, cyanosis, tremors, weakness, red flushing of face, irritability: Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation.

### Section 5 - Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:** Use water, dry chemical, foam, or carbon dioxide to extinguish fire.
- 5.2 Fire Fighting Procedures:** Exposed firefighters should wear protective clothing.
- 5.3 Unusual Fire and Explosion Hazards:** NA
- 5.4 Combustion Products:** NA.

### Section 6 - Accidental Release Measures

- 6.1** Dilute mixture with excess amounts of water.



## Section 7 - Handling and Storage

- 7.1 Handling:** Do not allow contact with eyes or skin. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking, smoking. Remove contaminated clothing and clean before re-use. All handling of open containers should be within aseptic environment and practices.
- 7.2 Storage:** Store in tightly closed containers frozen in a -20°C environment. Use as depicted in instructions for use.  
Keep containers tightly closed and upright when not in use. Protect against physical damage. Protect from light.

## Section 8 - Exposure Controls/Personal Protections

- 8.1 Exposure Limits:** not limited
- 8.2 Engineering Controls:** Not needed. To be handled aseptically.
- 8.3 Personal Protective Equipment (PPE):**
- 8.3.1 Eye Protection:** Wear safety goggles. Have eye-wash stations available where eye contact can occur.
- 8.3.2 Skin Protection:** Avoid skin contact. Wear gloves impervious to conditions of use.
- 8.3.3 Respiratory Protection:** NA

## Section 9 - Physical/Chemical Protections

- 9.1 Flashpoint:** NA
- 9.2 Autoignition Temperature:** NA
- 9.3 Boiling Point:** NA
- 9.4 Melting Point:** NA
- 9.5 Vapor Pressure:** NA
- 9.6 Vapor Density (Air=1):** NA
- 9.7 % Solubility in Water:** complete @ 20°C
- 9.8 Pour Point:** NA
- 9.9 Molecular Formula:** Mixture Solution
- 9.10 Odor/Appearance:** When defrosted: clear, red colored liquid.
- 9.11 Lower Flammability Limit:** NA
- 9.12 Upper Flamimability Limit:** NA
- 9.13 Specifc Gravity:** NA
- 9.14 % Volatile:** 100
- 9.15 Evaporation Rate (Water=1):**
- 9.16 Viscosity:** NA
- 9.17 Octanol/Water Partition Coefficient:** NA
- 9.18 pH:** 7.1-7.5 (Aqueous Solution)
- 9.19 Molecular Weight:** Mixture Solution



## Section 10 - Stability / Reactivity

- 10.1 Stability/Incompatibility: NA
- 10.2 Hazardous Reactions/Decomposition Products: NA

## Section 11 - Toxicological Information

- 11.1 Signs and Symptoms of Overexposure: NA
- 11.2 Acute Effects: Not expected
- 11.3 Eye Contact: Unlikely, may cause some irritation.
- 11.4 Skin Contact: Unlikely. May cause reddening of skin.  
May cause allergic skin reaction.
- 11.5 Inhalation: Unlikely, may cause irritation
- 11.6 Ingestion: Unlikely, may cause gastrointestinal irritation.
- 11.7 Target Organ Effects: NA
- 11.8 Chronic Effects: NA.
- 11.9 Medical Conditions Aggravated by Exposure: NA
- 11.10 Acute Toxicity Values
- Oral LD<sub>50</sub> (Rat) = NA
- Dermal LD<sub>50</sub> (Rabbit) = NA
- Inhalation LC<sub>50</sub> (Rat) = NA

## Section 12 - Ecological Information

- 12.1 Not Available.
- 12.2 Bioaccumulation is not expected to be significant. This product is readily biodegradable.

## Section 13 - Disposal Considerations

- 13.1 As sold, this product, when discarded or disposed of, is not a hazardous waste according to Local regulations. The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with Local regulations.

## Section 14 - Transport Information

- 14.1 U.S. Department of Transportation (DOT)
- 14.1.1 Proper Shipping Name: NA
- 14.1.2 Hazard Class: Mixture & ingredients are not considered dangerous.
- 14.1.3 UN/NA Number: NA
- 14.1.4 Packing Group: Not Available.
- 14.1.5 Labels Required: No specific Labels required
- 14.2 International Maritime Organization (IMDG)
- 14.2.1 Proper Shipping Name: NA
- 14.1.2 Hazard Class: Mixture & ingredients are not considered dangerous.
- 14.1.3 UN/NA Number: NA
- 14.1.4 Packing Group: Not Available.
- 14.1.5 Labels Required: No specific Labels required



## Section 15 - Regulatory Information

### 15.1 U.S. Federal Regulations

15.1.1 Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):	NA
15.1.2 Toxic Substances Control Act (TSCA):	NA
15.1.3 Clean Water Act (CWA):	NA
15.1.4 Clean Air Act (CAA):	NA

### 15.2 International Regulations

15.2.1 Canadian Environmental Protection Act:	NA
15.2.2 Canadian Workplace Hazardous Materials Information System (WHMIS):	NA

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

15.2.3 European Inventory of Existing Chemicals (EINECS):	NA
15.2.4 EU Classification:	NA
15.2.5 EU Risk (R) and Safety (S) Phrases:	NA

## Section 16 - Other Information

16.1 National Fire Protection Association (NFPA) Ratings:	This information is intended solely for the use of individuals trained in the NFPA system.
16.2 Health:	0
16.3 Flammability:	0
16.4 Reactivity:	0
16.5 Revision Indicator:	2.0
16.6 Disclaimer:	

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