Material Safety Data Sheet

Section 1 - Product and Company Identification

1.1 Product Name: MSC™ Adipogenic XF Medium
1.2 Catalog Number: 05-330-01
1.3 Synonyms: NA
1.4 Product Use: XF, SFM Medium for the differentiation of human Mesenchymal Stem cell into Adipocytes. To be used according to instructions, with BI products: Cat. No. 05-331-01, 05-332-01.
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

<table>
<thead>
<tr>
<th>Health</th>
<th>Environmental</th>
<th>Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

GHS Label: NA

Symbols: NA

Hazard Statements | Precautionary Statements
-------------------|-----------------------------
NA                 | NA                          

Section 3 - Composition / Information on Ingredients

3.1

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Weight %</th>
</tr>
</thead>
</table>

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Version 2.0
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Purified Water</td>
<td>NA</td>
<td>&gt;90%</td>
</tr>
<tr>
<td>HSA*</td>
<td>7002490-7</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

* 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 in a +4°C environment. Use as depicted in instructions for use. Keep containers tightly closed and upright when not in use. Protect against physical damage.

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: Clear, red colored liquid.
9.11 Lower Flammability Limit: NA
9.12 Upper Flammability Limit: NA
9.13 Specific Gravity: NA
9.14 % Volatile: 100
9.15 Evaporation Rate (Water=1): NA
9.16 Viscosity: NA
9.17 Octanol/Water Partition Coefficient: NA
9.18 pH: 7.0-8.0 (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_{50} (Rat) = NA

Dermal LD_{50} (Rabbit) = NA

Inhalation LC_{50} (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


14.1.5 Labels Required: No specific Labels required

14.2 International Maritime Organization (IMDG)

14.2.1 Proper Shipping Name: NA

14.2.2 Hazard Class: Mixture & ingredients are not considered dangerous.

14.2.3 UN/NA Number: NA

14.2.4 Packing Group: Not Available.

14.2.5 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

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**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:
The information contained herein is accurate to the best of our knowledge. My Company makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances.