

1. IDENTIFICATION

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|----------------------------|---|
| 1.1. Product Name | NutriStem™ XF/FF Culture Medium |
| 1.2. Catalog Number | 01-0005, 01-0005-100 |
| 1.3. Uses and restrictions | For research use only. Not for use in diagnostic or therapeutic applications |
| 1.4. Manufacturer/Supplier | Stemgent®, Inc.
51 Moulton St.
Cambridge, MA 02138 USA
(617) 245-0000 |
| 1.5. In Case of Emergency | <ul style="list-style-type: none"> • For medical emergencies, contact your local emergency center. • For transportation emergencies, contact your local transportation authorities. • For other non-medical or non-environmental emergencies please call (617) 245-0030, 8:00 am-4:00 pm EST, Monday – Friday. |

2. HAZARDS IDENTIFICATION

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| 2.1. Classification | This product contains no substances which at their given concentration, are considered to be hazardous to health. |
| 2.2. Signal Word | Not applicable. |
| 2.3. Symbol | Not applicable. |
| 2.4. Hazard Statement(s) | Not applicable. |
| 2.5. Precautionary Statement(s) | Not applicable. |
| 2.6. Hazards not otherwise classified (HNOC) or not covered by GHS | None. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Chemical Name	3.2. Synonyms	3.3. Chemical Formula	3.4. Molecular Weight	3.5. CAS Number
Human Recombinant Insulin	Not applicable.	Not applicable.	Not applicable.	11061-68-0
Human Serum Albumin	HSA	Not applicable.	Not applicable.	70024-90-7
Transferrin, Human	Not applicable.	Not applicable.	Not applicable.	11096-37-0
Fibroblast Growth Factor	FGF	Not applicable.	Not applicable.	106096-93-9
Transforming Growth Factor-β	TGFβ	Not applicable.	Not applicable.	Not available.

4. FIRST AID MEASURES

- | | |
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| 4.1. First Aid Instructions | |
| <ul style="list-style-type: none"> • General Advice • Eyes | <p>Move out of exposure area. Consult a physician.</p> <p>Check for and remove contact lenses immediately and flush thoroughly with water for at least 15 minutes. Call a physician.</p> |

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- Skin Immediately flush skin with copious amounts of water. Remove contaminated clothing and shoes and wash before use. Wash off with soap.
 - Ingestion If swallowed, rinse mouth and give 2-4 cups of water or milk to gradually dilute the swallowed toxicant. Do not induce vomiting. Contact a physician.
 - Inhalation If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, call a physician.
 - Puncture Wounds Wash thoroughly with soap and water. Allow wound to bleed freely. Contact a physician.
- 4.2. Most Important Symptoms/effects, acute and immediate Described in section 2.
- 4.3. Indications of immediate medical attention and special treatment needed No data available.

5. FIRE FIGHTING MEASURES

- 5.1. Suitable extinguishing media. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2. Specific hazards arising from the chemical No data available.
- 5.3. Special protective equipment and precautions for fire-fighters Wear self contained breathing apparatus and full turnout gear for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment, and emergency procedures Use personal protective equipment (see section 8). Avoid direct contact with skin or eyes and prevent inhalation of dust. Ensure adequate ventilation.
- 6.2. Environmental Precautions Do not let product enter drain.
- 6.3. Methods and materials for containment and clean up Keep in suitable, closed containers for disposal. Dispose of absorbent material used to clean spills in accordance with local, state, and federal regulations.

7. HANDLING AND STORAGE

- 7.1. Precautions for safe handling
- Avoid inhalation, contact with eyes, skin, and clothing.
 - Keep in well ventilated area.
 - Avoid prolonged or repeated exposure.
 - For other precautions see section 2.5.
- 7.2. Conditions for safe storage, including any incompatibilities Store at -20°C. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1. Control Parameters No known occupational exposure limits values.

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9000 Virginia Manor Road, Suite 207
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8.2. Appropriate engineering controls	Safety shower and eye bath. Mechanical exhaust required.
8.3. Protection measures and Personal Protective Equipment	Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling.
<ul style="list-style-type: none"> • Respiratory Protection 	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) particle respirator.
<ul style="list-style-type: none"> • Eye Protection 	Chemical safety goggles.
<ul style="list-style-type: none"> • Skin Protection 	Protective gloves and lab coat.

9. PHYSICAL/CHEMICAL PROPERTIES

9.1. Appearance	Red Frozen Solution
9.2. Odor	No data available.
9.3. Odor Threshold	No data available.
9.4. pH	7.1-7.5
9.5. Melting point/freezing point	No data available.
9.6. Initial boiling point and boiling range	No data available.
9.7. Flash point	No data available.
9.8. Evaporation rate	No data available.
9.9. Flammability (solid, gas);	No data available.
9.10. Upper/lower flammability or explosive limits	No data available.
9.11. Vapor pressure	No data available.
9.12. Vapor density	No data available.
9.13. Relative density	No data available.
9.14. Solubility(ies)	No data available.
9.15. Partition coefficient: n-octanol/water	No data available.
9.16. Auto-ignition temperature	No data available.
9.17. Decomposition temperature	No data available.
9.18. Viscosity	No data available.
9.19. Explosive properties	No data available.
9.20. Oxidizing properties	No data available.

10. STABILITY/REACTIVITY

10.1. Reactivity	No data available.
10.2. Chemical Stability	This product is stable.
10.3. Possibility of hazardous reactions	No data available.
10.4. Conditions to Avoid	Direct sunlight, UV radiation, dust, excess heat, fume and mist.

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- 10.5. Incompatible materials
10.6. Hazardous decomposition products

Strong oxidizing agents/strong reducing agents, strong acids/strong bases.
Carbon oxides, nitrogen oxides, carbon monoxides, and sulfur dioxides formed under fire conditions.

11. TOXICOLOGICAL INFORMATION

- 11.1. Toxicological effects
- Acute toxicity No data available.
 - Skin corrosion/irritation No data available.
 - Serious eye damage/eye irritation No data available.
 - Respiratory or skin sensitization No data available.
 - Germ cell mutagenicity No data available.
 - Carcinogenicity
 - IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.
 - ACGIH: No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
 - NTP: No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.
 - OSHA: No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
 - Reproductive Toxicity No data available.
 - Specific target organ toxicity - single exposure No data available.
 - Specific target organ toxicity - repeated exposure No data available.
 - Aspiration hazard No data available.
- 11.2. Symptoms related to the physical, chemical and toxicological characteristics No data available.
- 11.3. Effects of Short-Term Exposure No data available.
- 11.4. Effects of Long-Term Exposure No data available.
- 11.5. Numerical measures of toxicity No data available.
- 11.6. Other Information None.

12. ECOLOGICAL INFORMATION

- 12.1. Toxicity No data available.
- 12.2. Persistence and degradability No data available.
- 12.3. Bioaccumulative potential No data available.

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12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	No data available.
12.6. Other adverse effects	No data available.

13. DISPOSAL CONSIDERATIONS

13.1. Disposal Method	Waste must be disposed of in accordance with federal, state, and local environmental control regulations.
13.2. Personal safety	Refer to section 8.

14. TRANSPORT INFORMATION

This product is considered non-hazardous for transport.

15. REGULATORY INFORMATION

U.S. Federal Regulations

• SARA 313 components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.
• SARA 302 components	Does not contain any components subject to reporting.
• SARA 311/312 Hazards	Not hazardous.
• Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see CFR 61)	Does not contain any components subject to reporting.

U.S. State Regulations

• California Proposition 65	Does not contain any components subject to reporting.
• Massachusetts Right To Know Components	Does not contain any components subject to reporting.
• Pennsylvania Right To Know Components	Transferrin, human, CAS-No: 11096-37-0 Albumins, human A Class, CAS-No: 70024-90-7 Insulin (human), CAS-No: 11061-68-0 Fibroblast Growth Factor, CAS-No: N/A Transforming Growth Factor- β , CAS-No: N/A
• New Jersey Right To Know Components	Transferrin, human, CAS-No: 11096-37-0 Albumins, human A Class, CAS-No: 70024-90-7 Insulin (human), CAS-No: 11061-68-0 Fibroblast Growth Factor, CAS-No: N/A Transforming Growth Factor- β , CAS-No: N/A

WHMIS Hazard Class

Not controlled under WHMIS (Canada).

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16. OTHER INFORMATION

Disclaimer

This product is manufactured for Stemgent, Inc. by Biological Industries Israel Beit-Haemek Ltd., Kibbutz Beit-Haemek, 25115, Israel, Tel: 972-(0)4-9960595 ; Fax: 972-(0)4-9968896,; Email: info@bioind.com. The information contained in this document is based on Material Safety Data Sheet provided by the manufacturer.

Notice

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Stemgent, Inc. shall not be held liable for any damage resulting from handling or from contact with the product. See Stemgent, Inc. website for terms and conditions of sale.

Preparation Date

May 27th, 2015

Version No.

1.1

Prepared by

Quality Control

END OF SAFETY DATA SHEET

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